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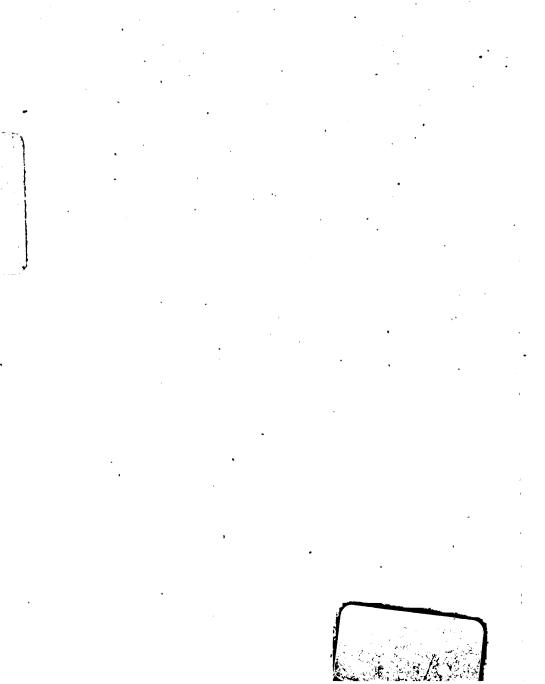
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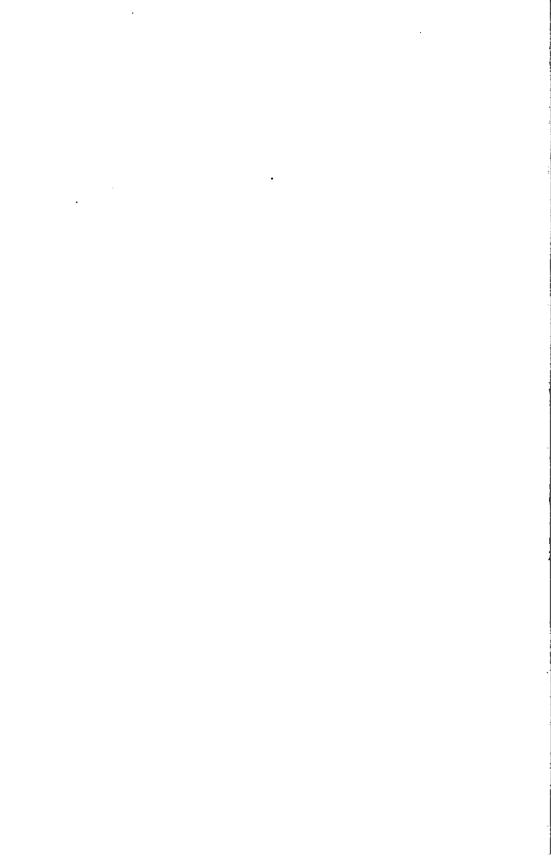
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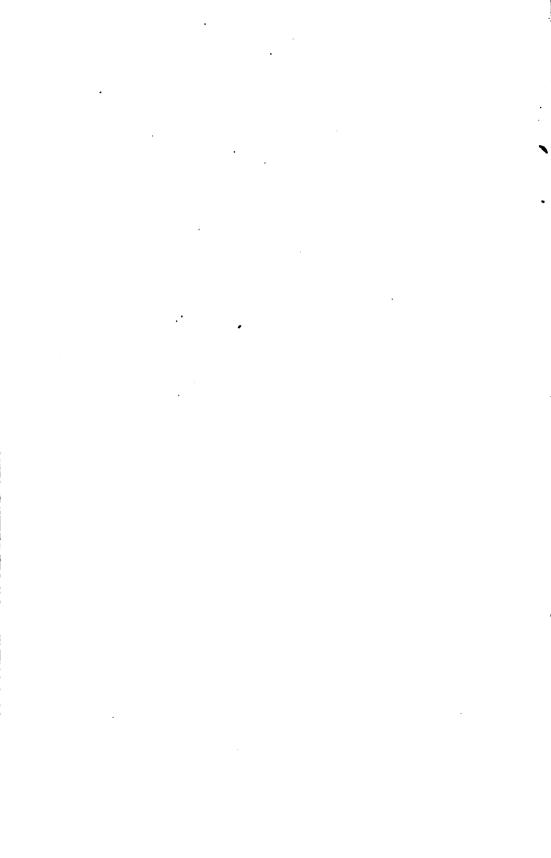
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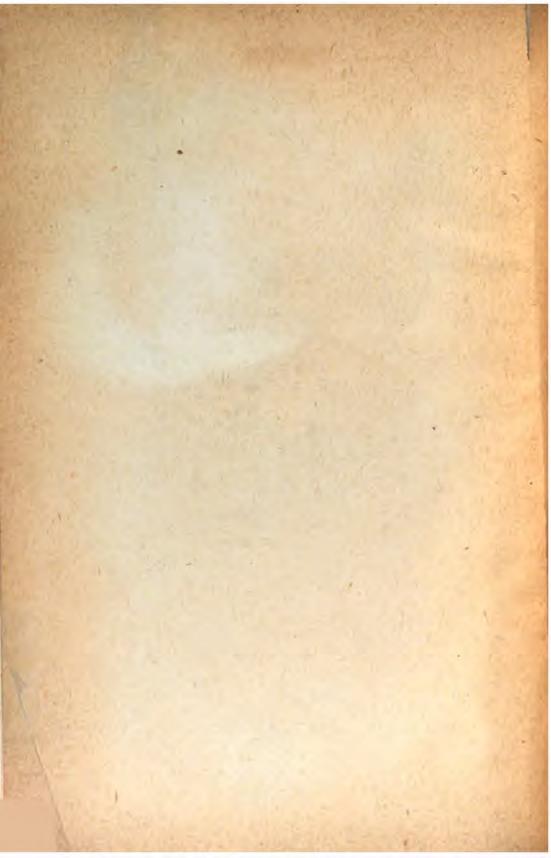
Board of Public Works



Of Kansas City, Mo.

fiscal Pear 1894.

April 16, 1894, to April 15, 1893.



SIXTH ANNUAL REPORT

---OF THE----

BOARD OF PUBLIC WORKS



OF KANSAS CITY, Mo.

---FOR THE-

FISCAL YEAR 1894.

April 16, 1894, to April 15, (895),

KANSAS CITY, MO.: Lawton & Burnap, Printers and Stationexs. 1895 THE NEW YORK
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TILDEN FOUNDATIONS
R 1917

BOARD OF PUBLIC WORKS.

PETER H. TIERNAN, President.
JOHN C. GAGE, Member.
R. S. Owen, Member.
L. C. Slavens, Member.
H. P. Langworthy, Secretary.
JOHN C. HOPE, Clerk of Supplies.
IDA G. FIELD, Stenographer.
DEPARTMENT OF ENGINEERING.
H. H. FILLEY, City Engineer.
STEPHEN A. MITCHELL, - Assistant City Engineer.
JOHN M. BULLOCK, - Superintendent of Construction.
JOHN MOLONY, Chief Clerk.
THOMAS F CALLAHAN, Supt. of Sidewalks and Curbing.
BENJAMIN R. WHITNEY, JR., - Chief Draughtsman.
DEPARTMENT OF STREETS AND ALLEYS.
THOMAS A. DODDS, Superintendent.
J. W. Humphrey, Chief Clerk.
Frank J. Haefner, · · · · Clerk.
DEPARTMENT OF BUILDINGS.
A. W. Love, Superintendent.
Samuel E. Bear, Clerk.

BOARD OF PUBLIC WORKS.

FISCAL YEAR 1889.
NAMES OF MEMBERS. LENGTH OF SERVICE.
J. M. Patterson, PresidentJune 11, 1889, to April 21, 1890
Fred. Howard, MemberJune 11, 1889, to May 2, 1890.
L. K. Thacher, "June 11, 1889, to April 25, 1890
Phil. E. Chappell, "June 11, 1889, to May 2, 1890.
FISCAL YEAR 1890.
J. S. Cannon, President April 21, 1890, to April 18, 1892
Wm. Weston, Member April 25, 1890, to April 27, 1891
W. A. Kelley, " May 2, 1890, to April 27, 1891.
J. H. Beckham, " May 2, 1890, to April 27, 1891.
FISCAL YEAR 1891.
J. S. Cannon, PresidentTerm expires April 18, 1892.
Jno. R. Stoller, MemberApril 27, 1891, to Nov. 12, 1891
H. C. Murphy, " April 27, 1891, to April 18, 1892 Chas. A. Rollert, " April 27, 1891, to April 25, 1893
Chas. A. Rollert, " April 27, 1891, to April 25, 1893
*Geo. Holmes, " Nov. 12, 1891, to May 4, 1893.
FISCAL YEAR 1892.
Peter H. Tiernan, President. April 18, 1892—elected for 4 yrs
Chas. A. Rollert, Member. April 27, 1891, to April 25, 1893
Geo. Holmes, "Nov. 12, 1891, to May 4, 1893.
†John Taylor, "April 28, 1892, to Aug. 9, 1892
‡James H. Oglebay, " Aug. 9, 1892, to April 22, 1893
FISCAL YEAR 1893.
Peter H. Tiernan, President. From April 18, 1892—term 4 yrs
Arthur J. Mason, Member. April 22, 1893, to April 26, 1894
Geo. Kumpf, "April 25, 1893, to April 25, 1894
Geo. Holmes, "May 4, 1893, to May 25, 1894.
FISCAL YEAR 1894.
Peter H. Tiernan, President. From April 18, 1892—term 4 yrs
John C. Gage, Member From April 25, 1894—term 2 yrs
L. C. Slavens, " From April 25, 1894—term 2 yrs
L. K. Thacher, " April 26, 1894 to Oct. 31, 1894.
§R S. Owen, "Nov. 30, 1894, ——

^{*}Geo. Holmes, appointed, vice Jno. R. Stoller, resigned.
†John Taylor, appointed, vice H. C. Murphy, resigned.
‡James H. Oglebay, appointed, vice John Taylor, resigned.
#Geo. Holmes, re-appointed.
#R. S. Owen, appointed, vice L. K. Thacher, deceased.

REPORT OF THE BOARD OF PUBLIC WORKS

OF KANSAS CITY, MISSOURI,

FOR FISCAL YEAR ENDING APRIL 15, 1895

To the Honorable Common Council:

GENTLEMEN—The Board of Public Works herewith respectfully submits its annual report for the fiscal year 1894 (from April 16, 1894 to April 15, 1895.)

+ LUIN K. THACHER.

In the death of Major Luin K. Thacher on the 31st day of October, 1894, the Board lost the services of a valuable and hard working member. Appointed as a member of the first Board of Public Works, Major Thacher had much to do with systematizing and starting the work of the department on a sound business basis. A man of extensive business experience, of good judgment and conservative, he was peculiarly fitted to perform the duties devolving upon him as a member of this Board, and in all public duties to which he was called he took a prominent and useful part. In his death the City lost a patriotic and faithful public officer.

On learning of the death of Major Thacher, the Board adopted appropriate resolutions, and then, as a mark of respect to his memory, adjourned.

RESOLUTIONS ADOPTED BY THE BOARD OF PUBLIC WORKS, OCTOBER 31, 1894. SPECIAL SESSION.

WHEREAS, The undersigned members of this Board have just learned with deepest regret and sorrow, of the sudden death of our esteemed associate and fellow member, Major L. K. Thacher, therefore,

Be it Resolved:

1st. That in the death of Major Thacher, this community has lost a

distinguished and useful citizen, the city an able and efficient officer, and we, his associates on this Board, a warm personal friend.

2nd. That fully realizing what poignancy of grief this blow must bring to his family, we hereby tender to them our heartfelt sympathy.

3rd. That these resolutions be spread upon the records of this Board, and a copy thereof be sent to the family of the deceased, and that as a mark of respect to his memory, this Board does now adjourn.

PETER H. TIERNAN, JOHN C. GAGE, L. C. SLAVENS.

FINANCES.

The apportionment for the year of \$145,000.00, made by your Honorable Body for the use of this Department was increased by \$2,728.33 collections made in excess of the apportionment. The unexpended appropriations amounting to \$6,016.44, and the cash surplus \$8,278.26 carried over from the fiscal year 1893, remained to the credit of the Board. The available fund was also increased in the sum of \$607.08 rent paid by contractors for use of the Steam Road Roller.

Early in the fiscal year the cash surplus of \$8,278.26 carried over from the fiscal year 1893 was, by ordinance, apportioned with the anticipated revenue for the year to the use of the several City departments. The cash balance on hand at the close of the fiscal year, viz. \$5,503.68 was appropriated by the Common Council for other purposes. The total amount therefore to be accounted for by the Board is \$148,848.17.

The total receipts and disbursements for the fiscal year are as follows:

Receipts.	
Apportionment by the Common Council	\$145,000.00
Collections in excess of apportionment	2,728.33
Unexpended appropriations from fiscal year 1893	. 6,016.44
Cash surplus from fiscal year 1893	. 8,278.26
Steam road roller rent	607.08
Total	\$162,630.11
Contra.	
Cash Surplus 1893 (apportioned)	
Cash balance on hand at close of year appropriated	
by the Common Council	8 13,781.94

	Disbursements.	
	Board of Public Works \$ 9,857.67	
DEPARTMENT	Engineering Department	
expenses.	Street and Alley Department 79,219.15	
	(Building Department 5,799.57	\$ 137,936.09
Appropriatio	ons—Expenditures on account of	8,296.35
46	—Unexpended. Cash in City Treasury	2,615.73
	Total	\$ 148,848.17

In making the apportionment of \$145,000.00 the Common Council provided that \$5,000.00 should be set aside and used in the construction of a public intercepting sewer from the eastern City limits to the Big Blue River (known as the Goose Neck Creek intercepting sewer). The work was completed during the year at a cost of \$4,999.90.

The sum of \$607.08 was received from contractors for rental of the Steam Road Roller, while the expenses for the year amounted to \$1,541.58, an excess in expense of \$934.50.

The following table shows the expenses of the several departments of the Board of Public Works, and the funds at its disposal, to be accounted for each year since its organization.

EXPENDITURES OF THE BOARD OF PUBLIC WORKS DEPARTMENT SINCE ORGANIZED.

Fiscal year ending in April.	Board of Public Works.	Engineer- ing depart- ment.	Street and Alley depart- ment.	Building depart- ment.	Total.	Funds at disposal of Board and to be ac- counted for
1890	\$ 6,658.78	\$ 71,863.36	* 83,392.2 8	\$17,368.37	179,282.74	3 69,814.57
1891	14,597.75	70,957.86	95,316.44	12,728.71	193,595.76	268,417.95
1892	10,947.76	56,354.03	86,409.76	7,871.47	161,588.02	228,882.08
1893	9,274.23	57,858.11	80,507.88	7,382.81	155,022.03	177,090.74
1894	24,583.13	49,495.91	67,746.25	6,551.82	148,376.61	181,499 61
1895	9,857.67	43,059.70	79,219.15	5,799.57	137,936.09	148,846.17
otal	. \$75,919.27	\$349,588.97	\$492,591.26	\$57,696.75	\$975,796.25	\$1,269,553,07

DEPARTMENT OF ENGINEERING.

Public Improvements.

Table "A" prepared in the Engineering Department gives in detail the total amount of public work constructed through that department, and the total expenses of the department since the organization of the Board of Public Works.

TABIO "A"

Fiscal Year Ending April.	Grading Streets and Alleys.	Curbing	Curbing Streets and Alleys.	Side- walks, Plank.	Side- walks, First Class.	Side- walk Repairs.	Bridges and Viaducts.	Sewers, District.	Sewers. Public.	Sewers, O. K. Creek.	Sprink- ling and Cleaning.	Miscel- laneous Public Work.	Total Amount of Work.	Expenses of Engi- neering De- partment.
390	1890 6100,731.71 6 73		• 875,702.34 • 38,714.33 •	38,714.33	22,070.47		8 37,966.00 \$140,657.27	11,657.27	7,853.20	Transaction.		6 6,282.12	803,389,88	# 71,863.36
1681	59,707.70	30,271 49	144,118.43	56,931 64	92 094.81	6,913.57	6,213,57	73,780.29	12,691.50 # 86,811	86.811.64	4 1,386.98	2,215.14	573,106,76	70,957.86
1к92	5H,910.36	27,103.42	235,072.98	13,583.83	52,248.35	8,721.43	3,576,00	19,482.20	8,418.36	51,114.52	426.72	1,525.98	483,184.15	56,354.03
1893	17,945.63	33,004.09	223,421.91	8,513.98	27,594.33	8,913.42	Carried Sec.	20,855,88	12,493.16	35,623,12	2,364.18	407.69	391,207.39	57,858,11
1494	42,020.79	36,098.03	530,770.21	8,380.95	2H, 683.03	14,216.05	15 300.00	63,633.00	1,724.49	41,838.77	25,522,65	2,001.79	810,189.76	19,495.91
1895	12,862.56	11,458 33	406,071.07	S.52H. 15	20,987.20	7,641.37		81,834,41	4,999.90		14,715.00	8,553.70	597,681.69	43,059.70
otal	Total 6293,214 75 6211		.347.40:81,918,136,94 8129,632.48 8213,678.19 8 46,155.54	129,652.48	6213,678.19	46,155.84	# 63,035.57	\$400,193.05	148,180.61	1215,888.05	6 74,415,53	8 16,016.42	# 63 055.57 #400,195.05 # 48,180.61 #215,888.05 # 74,415,53 # 16,016.42 #8,658,759.63	\$349,588.97

The work completed during the fiscal year through the Engineering department cost \$597,681.69, and the expense of the department was \$43,059.70 for all purposes. As compared with the previous fiscal year (1893) there is a decrease in the amount of work completed of \$212,506.07, and a decrease in the expenses of \$6,436.21. Compared with the fiscal year 1892, there is a large increase in work completed, viz., \$206,474.30, and the remarkable decrease of \$14,798.41 in expenses.

Of the \$597,681.69 expended for public work during the year, the sum of \$589,098.09 was paid in Special Tax Bills; and \$8,583.60 was paid in cash out of the City treasury.

PAVING.

The paving and repaving of streets and alleys cost \$406,-071.07 (\$403,024.20 for streets and \$3,046.87 for alleys).

The mileage and cost of each kind of pavement is as follows:

Material.	Lineal Feet.	Miles.	Square Yards.	Cost.	Av'g Cost per Sq. Yd
Asphalt—Trinidad Lake	27,221.70	5.16	118,460.26	\$3 08,754.62	\$2.64
Macadam	6.837.60	1.29	21,772.00	19,587.02	.899
Granite Blocks	829.50	0.06	1,238.80	8,077.84	2.47 1.846
Brick, Vitrified	18,131.40	2.49	45.977.80	61,914.79	
Cedar Blocks, repave	2,068.15	0.89	8.481.60	9,689.98	1.05
Total	49.588.35	9.39	195,930.46	0403,024.20	

It may be noted that of the total cost of street paving, by far the larger amount was paid for Asphalt, viz: \$308,754.62.

The following tables show the mileage and cost of all street paving work constructed from 1889 to 1894, inclusive, and kinds of material used.

RECAPITULATION OF STREET PAVING CONSTRUCTED, COMMENCING JANUARY 1, 1889, Ending May 9, 1889.

Material Used.	Lineal Feet.	Miles.	Square Yards.	Cost.	Av'g Cost per Sq. Yd.
Asphalt	2,570.00 1,027.00	0.486 .194	7,645.63 4,098.70	\$21,407.76 2,746.13	\$2.80 .67
Total	3,597.00	0.680	11,744.83	\$24,153.89	

RECAPITULATION OF STREET PAVING CONSTRUCTED DURING FISCAL YEAR COMMENCING MAY 9, 1889, AND ENDING APRIL 30, 1890.

Material Used.	Lineal Feet.	Miles.	Square Yards.	Cost.	Av'g Cost per Sq. Yd.
Asphalt. Cedar Blocks Granite Blocks Brick	10,764.80 87,674 97 1,173.00 8,525 00	2.04 7 185 .222 .667	40,244 27 146,772.14 5,079.57 18,256,72	\$112,688.96 208,607.08 16,527.42 27,056.36	92.80 1.421 3.253 2.041
Total	53,187.27	10.064	205,852.70	\$364,874.82	

RECAPITULATION OF STREET PAVING CONSTRUCTED DURING FISCAL YEAR COMMENCING APRIL 30, 1890, AND ENDING APRIL 20, 1891.

Material Used.	Lineal Feet.	Miles.	Square Yards.	Cost.	Av'g Cost per Sq. Yd.
Asphalt	4.752.00	0 90	17,680 60	\$ 48,890.92	02.765
Cedar Blocks	14 901 70 546.00	2.82 .10	50,394.60 2,765.00	71,160.74 1.161.30	1.412
Stone Blocks	2,655.80	.50	7,915,80	23,074 89	
Total	22,855.50	4 32	78,756 00	9144,287 H9	

RECAPITULATION OF STREET PAVING CONSTRUCTED DURING FISCAL YEAR COMMENCING APRIL 20, 1891, AND ENDING APRIL 18, 1892.

Material Used.	Lineal Feet.	Miles.	Square Yards.	Cost.	Av'g Cost per Sq. Yd
AsphaltBrick	15,126.00 6,682.50	2.86 1.27	57,110.89 24,079.80	\$144,298.71 40,390.62	\$2.526 1.677
Macadam	8,825.80	1.67	34,253.50	82,889.91	.958
Stone Blocks	774.30 1,384.20	.14 .26	3,054.70 4,572.90	7,859.91 6,767.89	2.573 1.48
Total	32,742.80	6.20	128,071.79	\$232,157.04	

RECAPITULATION OF STREETS PAVED DURING FISCAL YEAR ENDING APRIL 17, 1893.

Material Used.	Lineal Feet.	Miles.	Square Yards.	Cost.	Av'g Cost per Sq. Yd.
Brick	9,584.95	1.80	34,829.30	\$ 57,557.74	\$1.649
Asphalt Macadam	12,394.15 14,648.06	2.35 2 62	48,163.80 50,207 70	124,117.04 37.510.46	2.576 .747
Total	36 572 16	6.77	133,200.80	¢219,185.24	

RECAPITULATION OF STREET PAVING CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 16, 1894.

Material Used.	Lineal Feet.	Miles.	Square Yards.	Cost.	Av'g Cost per Sq. Yd.
Asphalt	29,096.10	5.51	99,443.50	\$257 089.35	02.585
Macadam	18,958.15	3.59	74,001.60	63,945 47	.864
Vitrified Brick	32,116.10	6.08	118,962.60	195,184.95	1.647
Stone Blocks, repairs	2,250 00	.42	9,987.50	6.265.88	.63
Total	82,420.35	15.60	302,345.20	\$522,485.65	

There has been an increase of 5.16 miles of asphalt, 2.49 miles of brick, 1.29 miles of macadam and .06 miles of stone pavement during the year, and a net decrease of 6.008 miles of cedar block pavement, only one street being paved (repaved) with cedar blocks, viz: Ninth street, from Mulberry street to the State Line.

	Total Miles.	Increase during year. Miles.	Decrease during year. Miles.
Cedar Blocks	87,04		6.008
Asphalt	20 91	5 16	
Brick	12.69	2,49	
Macadam	10.45	1.29	
Stone	2.14	0.06	
Total	83.23	9.00	6.008

At the close of the fiscal year the public work under contract as shown by the tabulated statement prepared by the City Engineer, was estimated to cost \$74,287.91, distributed as follows:

Paving	839,593.67
Sidewalks	2,424.15
Grading	17,120.42
District Sewers	567.36
Cleaning and Sprinkling	14,582,31

There are under contract, one street to be paved with asphalt, three streets to be paved with brick and one street with macadam, all estimated to cost \$39,593.67. The estimated cost of the street to be paved with macadam, namely: Independence Boulevard, from Woodland avenue to Walrond avenue is \$25,228.84, the work to be done according to specifications prepared by the Board of Park and Boulevard Commissioners. This work is nearly completed. The estimated aggregate cost of the streets to be paved with asphalt and brick is \$14,364.83.

Among the largest contracts of the year for paving with asphalt, all of them displacing cedar block pavement, were Grand avenue from Thirteenth street to Twentieth street, involving the construction of 21,275.80 square yards, costing \$56,380.87; Fourteenth street from Broadway to Virginia avenue, 20,269.50 square yards, at a cost of \$52,092.62; Grand avenue from Ninth street to Thirteenth street, 12.774.90

square yards, costing \$33,853.49; Forest avenue from Independence avenue to twelfth street, 11,027.06 square yards, costing \$28,339.54; and Locust street from Eighth street to Fifteenth street, 11,311.10 square yards, costing \$28,277.75. The average cost of asphalt pavement for the year was \$2.64 per square yard.

The principal brick contracts were Thirteenth street from Grand avenue to Flora avenue, 16,848.00 square yards, costing \$21,565.44; Locust street from Fifteenth street to Eighteenth street, 5,543.70 square yards, costing \$6,846.47; and Locust street from Independence avenue to Eighth street, 4,312.10 square yards, costing \$5,347.00, all in place of worn out cedar block pavements. The average cost for brick pavement for the year was \$1.346 per square yard.

Macadamizing Southwest Boulevard from Main street to Broadway cost \$6,968.90, replacing worn out cedar blocks. Park avenue from Twelfth street to Eighteenth street was macadamized at a cost of \$1.07 per square yard, 8,399.60 square yards being laid at a total cost of \$8,987.57. The macadam on Lydia avenue from Independence avenue to Eighth street, and Baltimore avenue from Twenty-third street to Twenty-fifth street, cost $58\frac{1}{2}$ cents and $49\frac{1}{2}$ cents per square yard respectively. The average cost of macadam for the year was 89.9 cents per square yard.

Walnut street from Fourth street to Fifth street was the only street paved with stone during the year and in this case also the pavement displaced was worn out cedar blocks. The material used was granite blocks; cost, \$2.47 per square yard.

The specifications for all kinds of street paving are given in the tabulated statement prepared in the Department of Engineering and published with the City Engineer's report herewith.

CURBING.

There was 25,382.50 lineal feet of curbing constructed during the year at a total cost of \$11,458.33, of which amount

the property owners constructed 13,560.00 lineal feet at a cost of \$5,819.50, and the City constructed by public contract 11,822.50 lineal feet at a cost of \$5,638.83, paid for in Special Tax Bills.

Curb and gutter was constructed on Baltimore avenue from Twenty-third street to south line of Waldo place, the property owners paying 80c per lineal foot for that part of the curb and gutter they constructed by private contract, the City paying, in Special Tax Bills, 72c per foot for all constructed by public contract.

The Parkhurst Combined Curb and Gutter, the first of the kind laid in this City, was constructed on Eleventh street from Grand avenue to Locust street, for which the property owners paid 90c per foot and the City 85c per foot.

During the year 4,807 miles of curbing was constructed at an average cost of 45c per foot.

To show the relative prices paid in cash by property owners for curbing constructed by private contract, and prices paid by the City for work done by public contract, paid for in Special Tax Bills, the following table has been prepared.

CURBING CONSTRUCTED.	CTED.	FISCAL	FISCAL YEAR 1894.	1894.			I
	ness in hes.	Ву Р	By Property Owners.	ners.	By 1	By Public Contract.	a ct.
		Lineal Feet.	Cost per Foot.	Total Cost.	Lineal Feet.	Cost per Foot.	Total Cost.
Contracts for eight streets	in .		60.4 0	64,188.00	618.10 309.90 1,077.90 288.20 1,338.80 168.40	2, 98. 2, 98. 2, 98. 2, 58. 88. 88. 88.	4242.56 1222.41 425.77 100.87 499.03 63.99 8318.61
Contracts for two streets Contract for one street. Curb and Gutter one street Parkhurst's Combined Curb and Gutter one street. Contract one street.		1,290,00 45 1,290,00 45 580,00 80 165,00 90 875,00 40	\$5. 80. 04.	\$60.00 \$49.00 \$421.00 148.50 150.00	280.10 520.60 765.50 286.90 1.125.80 1.716.00 1,571.70	5 5 ± 5 ± 5 ± 5 ± 5 ± 5 ± 5 ± 5 ± 5 ± 5	2081.24 2081.24 313.85 85.46 810.58 1,158.60 581.53
		13,560.00		65,819.50	11,822.50		65,638.83
Average cost eight streets, private contract, \$0.40 per foot. Average cost eight streets, public contract, \$0.376 per foot. Average cost thirteen streets, private contract, \$0.477 per foot. Average cost thirteen streets. public contract. \$0.443 per foot.	tract, \$ ontract	\$0.40 per 0.376 per t, \$0.477 \$0.443	r foot. r foot. per foo	ا نید			} •

Average cost thirteen streets, public contract, \$0.443 per toot.

FIRST-CLASS SIDEWALKS.

The sum of \$20,987.20 was expended during the year in the construction of first-class sidewalks as follows:

	8Q. FT.	COST.
Artificial Stone & Hexagon Blocks (9 streets)	102,584.20	\$19,610.66
Stone (1 street)	5,666.40	1,132.54
Brick (1 street)		244.00
Total	110,720.60	\$20,987.20
	8Q. FT.	COST.
Constructed by property owners and paid for in cash.	97,312.00	\$18,616.40
Constructed by public contract and paid for in Special		
Tax Bills	13,408.60	2,370.80
Total	110,720.60	\$20,987.20

Eleven contracts, 20.97 miles. The subjoined statement will show the prices paid in cash for first-class sidewalks by property owners, and by the City in Special Tax Bills.

FIRST CLASS SIDEWALKS CONSTRUCTED. FISCAL YEAR 1894.

	, –		1	,	1		
	Width.	By P	By Property Owners.	ners.	By	By Public Contract.	act.
	Feet.	Square Feet.	Cost per Foot.	Total Cost.	Square Feet.	Cost per Foot.	Total Cost.
Contract six streets, Artificial Stone and Hexagon Blocks Contract two streets, Artificial Stone and Hexagon Blocks Contract one street, Artificial Stone and Hexagon Blocks Stone, one street.	E E E E	6 57,772.00 80.20 811,554,40 6 81,550.00 18 5,731.00 5 2,070.00 10 207.00 207.00 87,312.00 87,312.00 818,616.40	18	811,554,40 5,751,00 1,104,00 207,00	1,588.10 830.00 874.60 2,130.20 535.00 1,941.20 8,434.20 365.20 146.40 146.40	88 1 08 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	9341.83 153.00 153.00 173.78 98.51 177.27 177.27 177.27 121.24 121.24 17.00

At the close of the year three streets were under contract for Hexagon Blocks, estimated to

SECOND-CLASS SIDEWALKS.

During the year 13,521.50 lineal feet of plank (secondclass) sidewalks was constructed at a total cost of \$3,528.15; and there was 2,509.30 lineal feet under contract at close of year, estimated to cost \$641.11.

The price paid by the City for plank sidewalks ranged from 21.95 to 24.9 cents per lineal foot, and by property owners at private contract 25c per lineal foot, with one exception—that on the east side of Vine street from Nineteenth street to Twenty-third street—the City paying 43\frac{3}{4} cents and property owners 45c per lineal foot, the work being of a more difficult character than usual. There was 2.56 miles of plank sidewalks constructed at an average cost of 0.261 cents per lineal foot.

REPAIRS OF SIDEWALKS AND CURBING.

The repairs of sidewalks and curbing forms a considerable item, as follows:

1st Class Sidewalks and Curb	oing	8 898.29
2nd Class (plank) Sidewalks		6,743.08
Total	•	\$7.0 (1.27

The repair work on sidewalks and curbing is done by yearly contracts and paid for in Special Tax Bills.

GRADING.

There were eleven street grading contracts completed during the year, 1.61 miles, at a cost of \$11,006.38, and nine alley grading contracts completed, 0.74 miles, at a cost of \$1,856.18. A total for grading streets and alleys of \$12,-862.56.

The estimated cost of street grading under contract at close of the year was \$16,800.79, and of alley grading \$319.63.

SEWERS.

Six and \$27 miles of district sewers were constructed during the year at a cost of \$81,834.41, as follows:

		Lineal Feet.	Cost.
Joint Di	stricts 94 and 104	866.80	\$ 913.88
District	No. 89	34,623.50	79,253.94
44	No. 90	. 538.30	42 9.50
"	No. 176	. 785.10	12,237 .00
	Total	.36,813.70	\$81,834.41

Only one district sewer, No. 43, was under contract at close of the year; estimated cost \$567.36.

The only public sewer constructed during the year was the intercepting sewer from the eastern City limits to the Big Blue River. This sewer cost \$4,999.90, the total length being 14,125.1 feet.

CLEANING AND SPRINKLING STREETS.

There was a large increase in the total amount expended for cleaning and sprinkling streets over the previous fiscal year (1893). The amount expended in the fiscal year 1893 was \$25,522.65; and for the past year (1894) the total cost was \$44,715.00, as follows:

CLEANING AND SPRINKLING STREETS. March 1, 1894, to Oct. 31 and Nov. 30, 1894.

	Lineal Feet of Property	Lineal Feet of Street.	Miles.	Average Cost per Lineal Foot, Property.	Average Cost per Lineal Foot, Street.	Total Cost.
Sprinkling Cleaning and Sprinkling.	93,655,47	101,253.50 54,585.00 87,262.50	19.18 10.34 7.06	•0.1005 .1271 .2822	\$0.1759 .2181 .4002	\$17,818.30 11,908.08 14,938.67
Total	335,411.47	193,101.00	36.58			\$44,715 00

The contracts in force at close of year are:

	Amount.
Cleaning, six contracts, estimated cost	8 3.724.50
Sprinkling, seventeen contracts, estimated cost	8,998.16
Cleaning and Sprinkling, three contracts, estimated cost	1,859.65
Total	\$14,582.31
Estimated time from March 1st to November 30th, 1895.	

DEPARTMENT OF STREETS AND ALLEYS.

The total amount expended through this department in repairing streets, sewers, bridges, sidewalks, constructing crosswalks, cleaning and sprinkling streets, and for various other purposes, as set forth in detail in the tabulated statement, was \$79,-219.15. The pay rolls of the department show the expenditure of \$62,960.12, and the sum of \$16,259.03 was expended in the purchase of material of all kinds used in repair work, purchase of tools and machinery and repairs of same, and other necessary demands of the department.

The distribution of the pay roll is as follows:

Superintendent \$ 2,000.00 Clerks 1,836.98 Inspectors 2,629.30	\$ 6,466.28
Foremen	
Carpenters	
Pavers. 1,304 24	
Masons 1,352.00	
Teams	
Laborers	56,493 84
Total	262,960 12

The following table gives in condensed form the manner in which the work of the department is divided, and the money expended.

STREETS AND ALLEYS, (DEPARTMENT OF) EXPENDITURES.

FOR FISCAL YEAR 1894. (APRIL 16, 1894, TO APRIL 15, 1895.)

MISCELLANEOUS WORK.

		A 0.002.00	
Superintendent and Clerks, salaries		\$ 3,836.98	
Inspectors, salaries		3,048 92	
Horses, keep and hire		924.10	
Tools, new		590.97	
Tools and Machinery, etc., repairs		838.45 72.00	
Telephone, rental			
Rental Lot 11th and Troost, city yards		60.00 360.00	
K.C.Improved Street Sprinkling Co., contract		756.11	
Sundries	•	750.11	
Total	•		\$10,487.53
WORK DISTRIBUTED OF	N STREETS	3.	
Cleaning		\$25,62 0.73	
Paved streets	8 868.71	,	
Paved streetsLabor,	4,242.46	5,111 17	
Dirt and macadam streets Material,	901.41		
Dirt and macadam streetsLabor,	5,872.47	6,773.88	
Sewer maintenance Material,	1,175.68		
Sewer maintenanceLabor,	5,899.10	7,074.78	
Crosswalks	5,552.93		
CrosswalksLabor,	3,933.03	9,485.96	
Sidewalks Material,	94.13		
Sidewalks Labor,	300.73	3 94.86	
Bridges Material,	1,048.80		
Bridges Labor,	1,043.22	2,092.02	
Miscellaneous Material,	52.24		
MiscellaneousLabor,	406.88	459.12	
Total			857,012.52
Work Distributed of	N ALLEYS.		
Cleaning		8 810.20	
Paved alleysMaterial,	8 6.23	• 010.20	
Paved alleys Labor,	62.24	68.47	
Unpaved alleys Material,	10.80		
Unpaved alleysLabor,	83.23	94.03	
•			
Sewer maintenance Material,	53.82	40	
Sewer maintenanceLabor,	441.76	495.58	
Total			\$ 1,468.28

868,968.33

Amount forward.....

Amount brought forward......

\$68.968.33

MISCELLANEOUS WORK.

Cleaning, general		8 105.05	
Hauling prisoners		119.02	
Cutting weeds		890.36	
Main street sewerMateri	al, \$1,492.89		
Main street sewerLabor,	2,335.22	3,828.11	
General sewer workMateri	al, 39.23		
General sewer workLabor,	103.85	143.08	
City yardsMateri	al, 19.53		٠.
City yardsLabor,	412.84	432.37	
FountainsMateri	al, 56.68		
FountainsLabor,	359.08	415.76	
James street viaduct Materia	al, 475.75		
James street viaduct Labor,	179.85	655.60	
General work Materi	al, 4.95		
General workLabor,	1,469.73	1,474.68	
Total			8 8,064.03
Material on hand, estimated	l at close of y	e ar	. 2,186.79
Total expenditures			879,219.15

For further information regarding the work of the department, reference may be had to the complete report herewith published.

DEPARTMENT OF BUILDINGS.

The following table shows the work of the Department of Buildings. For details and tabulated statements reference may be had to the report of that department herewith published.

DEPARTMENT OF BUILDINGS.

FISCAL YEAR 1894.

Kind of Buildings.	Number Permits.	Front Feet.	Estimated Cost.	Fees.	Pay Rolls and Miscl's Expenses.
Brick	18 2 171 1,384	5,901 3,591	817,665.00 224,150.00 376,840.00	0 419 30 145 70 766 10	
Total for the year	1,737	9, 192	\$1,418,695 .00	01,334.10	841 05,799 57

LIGHTING STREETS.

At the close of the fiscal year there were 1,691 gas lights, 1,140 gasoline lights and 143 electric lights in service, an increase of 6 gas lights and 1 gasoline light during the year and a net decrease of 4 electric lights.

The decrease in the number of electric lights was caused by the City lighting the Market House from the City Hall electric light plant, which is now being done in a very satisfactory manner.

The apportionment of \$60,000.00 being insufficient to meet the expense of lighting for the year with the number of street lights in service, it became necessary to either decrease the number of lights, or arrange with the companies doing the work for a reduction in the prices charged. The Gas Committees of the Common Council presented the matter to the companies doing the lighting, and after some consideration, they agreed to make deductions on their monthly bills, so as to bring the total expense of street lighting for the year within the apportionment.

The City paid \$17.50 each for gas lights (mounlight schedule), \$19.00 each for gasoline lights (full mounlight schedule), and \$119.50 each for electric (arc) lights (all night schedule), and the total cost of street lighting for the year was \$58,428.01, as follows:

	Total.	Deductions.	Amount Paid
K. C. Gas Light & Coke Co F. K. Hoover, Gasoline Lights	628,873 .36	*3,702.87	\$24,67U.49
F. K. Hoover, Gasoline Lights K. C. Electric Light Co	21,660.00 17.053.43	2,872.80 2,083.11	18.787.20 14.970.82
K. C. Electric Light Co	11,033.43	2,083.11	14,510.04
Total	067,083.79	\$8,658.78	\$58,428.01

Cost for the year 1893, \$68,929.10.

The bills of the Gas Company and Electric Light Company for the first half of April (1-15), close of the fiscal year, were not presented in time for payment.

In December a contract was let for lighting the Market

House from the electric light plant in the basement of the City Hall (this was suggested in the report of this Board for 1892), pursuant to an ordinance appropriating \$300.00 therefor, to be expended under the direction of the Board of Public Works. The work was done according to plans and specifications prepared by the Superintendent of Buildings and cost \$281.50. Ten incandescent-arc lights, with proper fixtures, connecting with the City Hall plant, were installed in the Market House, displacing 9 arc lights for which the City was paying the Electric Light Company \$119.50 each, a saving to the City of \$1,075.50 per annum.

In addition to the lights placed in the Market House by the City, the renters of stalls have put in, at their own expense and repair, some 225 incandescent lights, each stall occupant putting in as many lights as desired.

As the result of the expenditure of a small amount of money, the Market House is being thoroughly lighted, and at so little expense to the City each year that it can scarcely be compared to the former outlay.

THE BOARD OF PUBLIC WORKS.

PETER H. TIERNAN, President.

JOHN C. GAGE,
R. S. OWEN,
L. C. SLAVENS,

Members.

April 15th, 1895.

STATEMENT OF BOARD OF PUBLIC WORKS FUND

FOR THE FISCAL YEAR ENDI	NG APRIL 15, 1895.	
Apportionment for the fiscal year 1894\$1	45.000.00	
Appropriations (unexpended) from last	. 20,000.00	
fiscal year	6.016.44	
Cash balance from last fiscal year	8.278.26	
Steam road roller, rent from	607.08	
Apportionment, excess of collections	2,728.33	
Total	 .	
10tati	\$162,63 0.11	
Contra.		
Cash balance from last fiscal year, re-		
apportioned\$	8,278.26	
Cash surplus at end of fiscal year, appro-		
priated	5,503.68	
Total	\$ 13,781.94	
Balance to be accounted for .		8 148,848.17
Dalauce w be accounted for .	••••••	0120,020.1 1
Expenses—Board of P	UBLIC WORKS.	
Pay rolls-members and clerks\$	6,113.21	
Miscellaneous expenses	937.25	
Steam road roller, pay rolls, repairs, etc	1,541.58	
Dripking fountains, repairs of	451.16	
Condemnations, expense of	359.25	
City Hall, repairs of	136.38	
Printing and stationery, expense	319.84	
		8 9.857.67
Engineering Depa	ARTMENT.	• • • • • • • • • • • • • • • • • • • •
Pay rolls—Engineer and assistant\$	5,017.95	
" Clerical department	5,798.93	
" Draughting "	4,585.49	
" Transitmen, roadmen and		
chainmen	9,618.99	
" Construction department	7,199,65	
" Grading "	1,070.78	
" Sidewalk and Curbing dep't.	5,883.39	
" Inspector of excavations	897.50	
Inspector of Cacavasions	8 40,072.68	
Horse hire	1,341.48	
Miscellaneous expense	616.60	
Abstracts, grading cases and general in-	010.00	
, 3	486.74	
formation		
Printing and stationery	<u>542.20</u>	A 40.050.50
Total		8 43,059.70
Amount forward		8 52,917.37

Amount brought forward		\$ 52,917.37
STREET AND ALLEY	Department.	
Pay rolls—Superintendent	2,000.00	
" Clerks	1,836.98	
" Inspectors	2,629.20	
" Foremen	3,585.71	
" Carpenters	1,344.65	
" Pavers	1,304.24	
" Masons	1,352.00	
" Teame	16,953.18	
" Laborers	31,954.06	
-	\$ 62,960.12	
Horse hire and keeping	913.10	
Miscellaneous expenses	145.30	
Repairs of machinery, tools, etc	912.65	
Material for crosswalks, bridges, via-		
ducts, etc	6,908.96	
Material for street repairs	3,860.85	
Material for sewer "	3,213.89	
Tools, etc	286.78	
Printing and Stationery	17.50	
Total		\$ 79,219.15
Building DEPA	RTMENT.	
Pay rolls—Superintendent	3 2,500.00	
" Clerk	985.50	
" Inspectors	2.281.60	
•	8 5,767.10	
Horse hire	7.25	
Miscellaneous expenses (office)	25.22	
Total		\$ 5,799.57
Department expenditures total		8 137,936.09

APPROPRIATIONS.

Ord. No.	CONTRACTS.				
5680—Street signs, to purchase. 5723—Smoke devices, to purc	•				
abatement of smoke. 5761—City Hall, to fresco walls,					
etc					
5877—Intercepting sewer, City the Blue)			
	·	8	8,291.75		
Co	NDEMNATIONS.				
5433—Confirm verdict, alley	north of				
Eighteenth-Quest's to Euclid avenue	Addition,		4.60		
EighteenthQuest's	Addition,	_	4.60	8	8,296.35
Eighteenth.—Quest's to Euclid avenue Total Total expenditures from Board Works fund	Addition, of Public		4.60	\$ \$ 1	8,296.35 46,232.44
Eighteenth.—Quest's to Euclid avenue Total Total expenditures from Board	Addition, of Public orward to		4.60	\$ \$ 1	
Eighteenth.—Quest's to Euclid avenue Total	Addition, of Public orward to		4.60	_	.46,232.44

Respectfully submitted, H. P. LANGWORTHY, Secretary.

FISCAL YEAR 1894. BOARD OF PUBLIC WORKS DEPARTMENT.

DISBURSEMENTS.

Total Disbursements.	6 5.47.51 10,702.31 12,182.85 14,003.85 11,1839.93 11,187.16 10,066.76 10,706.88 12,464.83 7,658.80	116,232.44
Total Smoitsitqotdd	6 484 82 6 691 88 6 691 88 6 44 40 775 00 300 00	48,296.85
Approprietions	685.50 665.50 6691.38 689.80 699.00 775.00	61.60
Appropriations Contracts.	6 484 82 6 484 82 6 691 88 6 89 80 6 480 00 75 00 800 00	68,291.75
Total Expenses.	6 547.51 10,702.81 11,698.08 13,894.98 12,146.55 11,210.35 11,447.22 10,627.16 9,881.76 10,406.88 12,454.83 7,658.80	6157,936.09
Building Department.	4 256.41 514.48 477.78 488.73 488.73 488.73 476.83	65,799.57
Street and Alley Department.	6 8.277.92 6.896.34 8.896.30 8.896.30 7.164.16 6.137.12 5.536.80 5.536.30 5.218.36 6.139.73 7.748.05	679,219.15
Bagineering Department.	6 1,733.98 3,483.18 8,098.14 8,098.14 8,086.47 8,781.50 8,771.50 8,242.17 8,532.17 1,837.13	013,069.70
Board of	9 279 25 748 37 1,334 31 894 19 804 19 711 26 801 13 801 13 801 13 802 26 803 84 7105 84 705 84	69,857.67
Month, 1894.	April 16-80 May May June June June June June June June June	Fotals

BOARD OF PUBLIC WORKS. DISBURSEMENTS 1894.

Month, 1894.	Pay Roll.	Miscellaneous Expense.	Steam Roller.	Fountain Repairs.	Condemnations	City Hall.	Printing and Stationery.	Total.
April 16-30	6270.85	8.40						\$ 279.25
May	541.67	14.00	60.86	119.15	00.09	:		1.324.31
uly	512.50	53.86	134.94	62.62	42.00	23.17		829.09
August	512.50	62.55	133.20	4 9.19	98 00	95.50		804.19
October	512.50	21.00	144.93		80.08			768.43
November	429.17	1.8	138.65	4.32	25.00		6318.84	981.13
December	515.27	55.20	141.01	10.73	67.00	8.05	2.00	802.26
anuary	512.50	6.30	872.74			•		891.44
February	512.50	1.85	57.75			21.28		592.83
March	514.50	18.00	107.74		61.25	6.85		705.84
April 1-15	256.25	120.05	87.97		:	3.00		469.27
Fotals.	66,113.21	6937.25	61,541.58	0451.16	6369.25	6136.38	6318.84	69.857.67

MISCHILLANFOLIS EXPENSE 1894 BOARD OF PUBLIC WORKS.

Pa '	JARD OF	DOAND OF FUBLIC WORNS. MISCELLAINEOUS EAFENSE 1831.	WORN	Similar is	ELLAN	EOOS E	ALENDE.	1034.	
Month, 1894.	Office Supplies and Repairs.	Street Paving Repairs.	Ground Rent 6th and Bluff.	Furniture.	Telephone Service Rental.	Sewers— Construction, Repairs.	Curbing, Construction.	11th Street, Olive to Prospect Rolling.	Total.
April 16-30 6 8.25 6 5.15 611.00 620.00 618.00 6469.89 619.26 July 2.3 6 5.95 7.00 620.00 618.00 619.26 July 2.7 60 7.00 620 619.26 August 33.05 22.50 7.00 18.00 November 40.30 10.30 10.50 December 3.95 33.25 18.00 July 6.20 820.25 18.00 March 1.93 82.25 18.00	23. 50 27. 50 27. 50 27. 50 27. 50 27. 50 40. 50 40 40. 50 40. 50 40 40. 50 40. 50 40	50 S S S S S S S S S S S S S S S S S S S	\$ 5.15 6.55 7.00 7.30 7.00 7.30 10.50 18.00 18.00 18.00	00 00	18.00	600.00 618.00 8469.89 619.26 18.00 18.00 8130.05	8468.05 818.26 8120.05	6120.05	6 8.40 14.00 14.00 524.14 52.58 62.58 62.59 1.00 5.20 6.20 1.35 1.35 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Totals	6122.70	867.88	645 50	620.00	673.00	89.89	619.26	6120.05	6937.25

ENGINEERING DEPARTMENT. DISBURSE-MENTS 1894.

Month, 1894.	Pav Roll.	Horse Hire.	Miscellan- eous Expense.	Abstract Work.	Printing and Stationery.	Total.
April 16-80	\$1,675.82	\$ 50.74	€ 8.47	● 4.40		01,783.93
Мау	3,345.00	105.00	2.40	80.72		3,483 12
June	2,908.77	90.00	36.35	4.62		3,039.74
Jul y	3,509.48	90.00	84.68	4.00		3,688.16
August	8 555.90	90.00	49.07	1.50		8,696.47
September	8,477.60	185.00	85.02	50.50		8,748.12
October	8,813.80	105.00	50.62	46.50	 	4,015.42
November	3,492.90	105 00	80.08	18.50	● 30.07	3,721.50
December	3,863.30	105.00	45.52	126.00	810.68	8,950.50
January, 1895	3,161.40	105.00	89.78		91.25	3,400.48
February	2,948.90	105.00	30.45	8.25	189.57	8,222.17
March	8,091.50	105.00	70.51	201.75	53.65	3,522.41
April 1-15	1,781.81	50.74	88.70		16.98	1,887.73
Totals	\$40,072.68	\$1.341.48	\$616.60	\$486.74	\$542.20	643,059.70

ENGINEERING DEPARTMENT. MISCELLANEOUS EXPENSE 1894.

Month 1894.	Office Supplies. Repairs.	Blue Prints.	Tools. Instruments and Repairs.	Services. Labor. Extra.	Stakes. Survey.	Parniture.	Testing Brick.	Sewer Inspection. Boots.	Total.
April, 16–30 May July. July. July. August. September October Docember Docember January February March	8.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	6 1.17 16.80 16.83 6.67 8.07 8.07 8.07	80 00 00 00 00 00 00 00 00 00 00 00 00 0	620.00 622.60 72.25 72.50 73.50	620.00 622.50 831.67 8.30 8.30 8.30 8.30 8.30 8.30 8.30 8.30	200 08 8 1987 8	60 mee	8 0 30 8 0 30 12 30 12 30 14 23 15 40 16 40 17 30 18 30	8. 2. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.
Cotals	\$148.73	453.74	6190.71	87.78	8T.T0	689.57	628.75	3.2	0616.60

STREET AND ALLEY DEPARTMENT. DISBURSEMENTS 1894.

Total.	3. 277. 92 5. 956. 34 6. 856. 34 6. 856. 34 7. 164. 16 6. 267. 12 6. 179. 64 7. 526. 80 7. 129. 77 7. 129. 77 7. 129. 77 7. 148. 105 7. 7148. 105	679,219.15
Printing and Stationery.	06.77	017.50
Tools.	**************************************	6286.78
Sewer Repairs.	290.88 136.45 175.85 114.73 114.73 116.18 116.18 220.85 688.80 178.29	68,218.99
Street Repairs.	6286.78 93.86 94.75 64.75 60.80 60.80 1127.62 20.79 11.90 800.00 738.60 651.57	63,860.85
Cross Walks and Bridges.	32.15 219.45 491.97 658.08 1.516.12 296.80 479.08 479.08 217.00 7.25.48 480.40 1.049.60 2.998.50	96,908.96
Repairs.	24.40 27.85 77.85 77.85 77.85 77.85 41.05 111.30 111.30 52.00 52.00 52.00 52.00 52.00	6912.65
Miscel- laneous Expense.	6 5.00 19 40 19 40 19 40 18 00 18 00	6145.30
Horse Keep.	24. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25	8913.10
Pay Roll.	4 2,604.12 5,417.78 5,410.91 7,033.79 5,138.72 5,138.37 4,501.88 4,250.17 4,029.89 4,488.40 5,464.08	662,960.12
Month. 1894.	April, 16-30. May. June June July August. September. October. November. December. January. February March. April, 1-15.	Totals

STREET AND ALLEY DEPARTMENT.

MISCELLANEOUS EXPENSE 1894.

Month. 1494.	Cleaning Vault.	Telephone Service. Rental.		Shoeing Horses.	Ground Rent. 11th and Troost.	Total.
April, 16-80					i	
May	. \$5.00				······	5 .00
June						
July			·		۱ا	
August		ı 		41.00	,	4.00
September	•	18.00	1.40	•••••		19.40
October						
November						
December		18.00		l		18.00
January, 1495						
February			1			
March		18.00			· · · · · · · · · · · · · · · · · · ·	19 00
April, 1-15	•			·		
Totals	e5 (40	972.00	04.3 0	44.00	9 60 00	0145 3 0

BUILDING DEPARTMENT.

DISBURSEMENTS 1894.

Month. 1894.	Pay Roll.	Horse Hire.	Office Expenses.	Totals.
April, 16-30	8 249.16	87.25		• 256.41
May	514.33		● 0.15	514.48
June	476.58		.95	477 48
July	476.53	l	1.25	477.78
August	483.73			493.73
September	469.33		14.67	484.00
October	483.73			483.73
November	476.53		1.20	477.78
December	487.83		5.00	492.38
January, 1895	476.53			476.58
February	462.13			462.13
March	476.58		2.00	478.58
April, 1-15	234.71			234.71
Totals	95,767.10	67.25	\$25.22	\$5,799.57

STATEMENT OF SPECIAL APPROPRIATIONS

FOR THE FISCAL YEAR 1894.

Balance Unex- pended.	6 328.80 1,199.70 384.65	61,908.15	######################################
Amount Charged Back.	60.10	90.10	- 3 2 3 6. 8. 8 6. 8. 8 6. 8. 8 6. 8. 8 6
Amount Expended.	876.20 800.30 1,615.35 4,999.90	69,291.73	
Amount Appropri- ated, Balances.	41,200.00 2,000.00 2,000.00 5,000.00	#10,200.00	6.2 1.2 1.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2
CONTRACTS.	Street Signs, to purchase. Smoke Devices, to purchase for abatement of smoke. (Tity Hall, to fresco walls, ceilings, etc	Footings	Extend and establish College Ave. from Bernard Place to 18th St. Open and establish Liberty St. from Turner & Co.'s Add'n to 18th St. Open and establish St. from Charlotte St. to Grand Ave. Confirm verdict 28rd St. from Charlotte St. to Grand Ave. Confirm verdict 28rd St. from St. St. to Grand Ave. Confirm verdict Main St. from St. St. from St. St. to Grand Ave. Confirm verdict Main St. from St. from Barrett & Orr's Add'n to C. & A. Ry tracks. Confirm verdict Monroe Ave. from Barrett & Orr's Add'n to C. & A. Ry tracks. Confirm verdict Monroe Ave. from Barrett & Orr's Add'n to C. & A. Ry tracks. Confirm verdict Morroe Ave. from Fairmount Park Add'n to Madison Ave. Confirm verdict Morrell Ave. from Santa Ave. to Sant'itt Ave. Open and establish Morrell Ave. from Charlatuqua Place to R. & C. Add'n Confirm verdict Morrell Ave from Charlatuqua Place to R. & C. Add'n Open and establish Lombard St. from Bell St. to State Line. Open and establish Law Morrell Ave. from Bell St. to State Line. Open and establish Law Morrell Ave. from Bell St. to State Line. Open and establish Law Morrell Ave. from Bell St. to State Line. Open and establish Law Morrell Ave. from Bell St. to State Line.
Oro d.	8,500 8,100 8,100 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00		2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

STATEMENT OF SPECIAL APPROPRIATIONS FOR THE FISCAL YEAR 1894—CONTINUED.

No. Ord.	CONDEMNATIONS.	Amount Appropriated, Balances.	Amount Expended.	Amount Charged Back.	Balance Unex- pended.
5,554 5,554 5,717 5,717 5,717 5,717 5,717 5,717 5,717 6,717 6,717 6,717 6,717 6,717 6,717 6,717 6,717 6,717 6,717	Amount Brought forward Confirm verdict No. 5,134 open and establish 11th St. from South Winfield Place to Agnes Ave Confirm verdict No. 5,134 open and establish 11th St. from Grand Ave. to 28rd St. Confirm verdict No. 4,835 open and establish 14th St. from Grand Ave. to Broadway Confirm verdict No. 4,835 open and establish 14th St. from Grand Ave. to Broadway Confirm verdict No. 4,835 open and establish 14th St. from Grand Ave. to Broadway Confirm verdict No. 5,827, open and establish 18th St. from Holly St. to S. W. Boulevard Confirm verdict No. 5,827, open and establish Amie St. from Downing's Resy Longview to Confirm verdict No. 5,827, open and establish Amie St. from Downing's Resy Longview to Euclid Ave Confirm verdict No. 5,890, open and establish Alley bet. Chestnut and Kansas, 28th St. to Bellid Ave Confirm verdict No. 5,890, open and establish Alley bet. Chestnut and Kansas, 28th St. to St. from South Winfield Place to Agnes Ave Confirm verdict No. 5,890, open and establish Alley bet. St. to Confirm verdict No. 5,890, open and establish Alley bet. St. to Confirm verdict No. 5,890, open and establish Alley bet. St. to Confirm verdict No. 5,890, open and establish Alley bet. St. to Confirm verdict No. 5,890, open and establish Alley bet. St. to Confirm verdict No. 5,890, open and establish Alley bet. St. to Confirm verdict No. 5,890, open and establish Alley bet. St. to Confirm verdict No. 5,890, open and establish Alley bet. St. to Confirm verdict No. 5,890, open and establish Alley bet. St. to Confirm verdict No. 5,890, open and establish Alley bet. St. and 14th St. from South Winfield Place to Agnes Ave to Wabash.	248.00 348.00 348.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	98.291.75	97.60 1.00 1.00 1.00	842.259 98 348.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
	Footings	9 822.44	94.60	6110.26	\$70T.58
	Total appropriations to be accounted for (and balances)	111,022.44			
	Total expenditures for the fiscal year 1894	:	88,296.35		
	Total amount charged back	÷	:	\$110.36	
	Balance of appropriations unexpended. Over to fiscal year 1895		:	:	62 ,615.73

Respectfully Submitted,

H. P. LANGWORTHY, Secretary.

BOARD OF PUBLIC WORKS.

DEPARTMENT OF ENGINEERING.



BOARD OF PUBLIC WORKS, DEPARTMENT OF ENGINEERING, April 15, 1895.

To the Honorable Board of Public Works.

GENTLEMEN:

I beg to submit the following report of this department for the fiscal year ending April 15, 1895.

Owing to the general depression in nearly all industrial pursuits, the amount expended through or under the direction of this department was considerably less than during the previous year, but it was largely in excess of the amount expended in the fiscal year 1892, as shown by the following:

COMPARATIVE STATEMENT OF PUBLIC WORK COMPLETED DURING FISCAL YEARS 1892-3, 1893-4, 1894-5.

Paving streets Paving alleys Curbing First class sidewalks	1892-8. #219,185.24 3,512 04 83,185.94 29,466.87	1893-4. •522,485.65 N,244.56 36,09N.03 2N,643.03	1894-5. \$403,024.20 3,046.87 11,458-33 20,987.20
Paving alleys	3,512 04 83,185.94	9,294.56 86,099.03	3,046.97 11,45% 33
Paving alleys	3,512 04 83,185.94	9,294.56 86,099.03	3,046.97 11,45% 33
(urbing	83,185.94	86,094.03	11,45% 33
First class sidewalks			
	49,400.01		
Plank sidewalks	7,342,79	8,380.95	3,529,15
Repairs plank sidewalks	8.891.4H	11.627.81	6,748.08
Repairs first-class sidewalks and curbing	95.06	2.588.24	895 29
Grading streets	16.970.40	36,919 41	11,006.39
Grading alleys	1.015.23	5.101.38	1,456 18
District sewers	20 856 08	63,633,00	81,834,41
Public sewers.	14,973 24	1.724 49	4,999.90
O K Creek sewer	27,641,89	41.835.77	
Sundry public work 'appropriation)		1.655 13	1,613 45
Sundry public work (voucher)	619 44	346 66	1,970.25
Cleaning and sprinkling streets	2,364.18	25.522.65	44,715 00
Bridges and viaducts		15,300.00	·
Totals	08 97,009 43	08 10,189 76	9597,641.69

The salaries and expenses of the department, including the pay rolls of the engineer and watchman of the steam road

roller, and exclusive of supplies furnished on requisitions by the Purchasing Agent, amounted to \$43,474.91. The same items for the fiscal year 1893-4 were \$49,879.44 and for 1892-3 they amounted to \$59,025.70. The amount of work required of this department is governed by the amount expended under its direction only to a limited extent. Inspectors on contract work are only paid for the days actually employed; but both the field engineers and draughtsmen are often employed for a considerable time in making surveys, plans and estimates for work that, for one reason or another, is not finally executed until a year or more afterwards.

The following statements, taken from the reports of the heads of the separate divisions, show in a general way the work performed during the past fiscal year.

DIVISION OF FIELD WORK.

The work done during the year as reported by the field parties is as follows:

Line and grade have been given for 36,277 lineal feet of new curbing.

Line and grade have been given for resetting 74,320 lineal feet of old curbing.

Line and grade have been given for 5,145 lineal feet of first-class sidewalks.

Line has been given for 2,562 lineal feet of second-class sidewalks.

Line and grade have been given for 47,275 lineal feet of pipe sewer.

Line and grade have been given for 10,771 lineal feet of brick sewer.

Line and grade have been given for 54,390 lineal feet of paving.

Line and grade have been given for 20,306 lineal feet of grading.

Profiles taken amount to 346,978 lineal feet. Miscellaneous surveys amounting to 291 in number have been made,

including a survey of the water shed of Gooseneck Creek and a survey for the continuation of O. K. Creek Sewer to the Missouri River; and surveys have also been made for the purpose of locating and referencing street lines in the portions of the City where the lines are in doubt from conflicts in the recorded plats. In addition to the above, and the many minor surveys made for the purpose of relocating and rebuilding catch-basins and manholes, the field parties have investigated by gauge readings the volume of discharge in the O. K. Creek and Main street sewers; they have also assisted in the testing of cements and paving brick, as well as the tests made of the smoke consumers placed in the City Hall.

Surveys have been nearly finished of the south $\frac{1}{2}$ Section 7, southwest $\frac{1}{4}$ Section 33, the northwest $\frac{1}{4}$ Section 6, and that part of the City from Prospect avenue east and Independence avenue south to the City limits.

In a large proportion of the additions, and especially the older ones, the additions as laid out on the ground do not conform with the recorded plats. These discrepancies can generally be determined in that part of the City which has been mostly laid out within the last ten years, as a sufficient number of the original stakes can generally be found to locate the lines; but these evidences are rapidly becoming obliterated and unless they are referenced the correct location of street and alley lines will soon become difficult. Surveys in the older parts of the City are often difficult and unsatisfactory on account of the fragmentary and unconnected character of the referenced lines, and the inadequacy of the records. In many cases the chief reliance must be placed on records obtained from private surveyors.

The object of these surveys is, as far as practicable, to prevent this condition from obtaining where lines may still be located with confidence, and to establish a system of survey lines, thoroughly referenced so that surveys for the improvements of streets and other purposes may be referred to these lines and connected with them, and in this way gradually per-

fecting the records and bringing uniformity to the different surveys made by the department.

DRAUGHTING DIVISION.

Plans and approximate estimates for all paving work are prepared by the draughtsmen, who also compute and record final estimates for same when completed. Thirty-six plans and approximate and final estimates on thirty-eight streets and five alleys were made during the fiscal year 1894-5.

During the same period thirty grading plats with profiles, and twenty final estimates (streets eleven, alleys nine) were prepared, as also assessment rolls for the eleven streets graded.

Final estimates and taxation areas in Sewer Districts Nos. 89, 90 and 176 and in Joint Sewer Districts Nos. 94 and 104 were also computed.

Maps necessary to start condemnation proceedings in eight cases were prepared.

The seventy-seven ordinances establishing grade and widths of sidewalks which were passed during the fiscal year were duly posted in the appropriate records. Work was also done on about one hundred cleaning and sprinkling apportionment sheets. Much progress has been made towards securing a complete and accurate set of City maps, a need long felt. This work should be pushed to an early completion, as this would minimize time, labor and probability of error in all cases where same are used.

The necessity of reproducing the original sewer records has forced a start in that direction, but progress has been unavoidably slow, owing to their incompleteness and the lack, in many cases, of field notes; thus requiring special surveys to fix depth and location.

The 465 field books of the department have been gone through separately and an index compiled of their contents. The work of arranging this alphabetically is now proceeding and will probably be completed during the coming fiscal year.

CLERICAL DIVISION.

WORK PERTAINING TO ORDINANCES AND RESOLUTIONS.

Of all ordinances and resolutions presented to the Common Council, ninety-five per cent originate in this department. During the fiscal year 1894, 500 ordinances were enacted and 175 resolutions adopted, while at least 100 similar documents were still in the hands of various committees at the expiration thereof. Of ordinances passed and resolutions adopted, the great majority relates to public improvements, and all of these are recorded in full in suitable records. Business street paving ordinances and first-class sidewalk resolutions are published from this office as by law provided. These notices aggregated about twenty-five during 1894 and will show an increase during 1895, as the new procedure in the matter of uniformity, etc., for first-class sidewalks is at present but in its inception.

WORK PERTAINING TO PETITIONS AND REMONSTRANCES.

Our City Charter requires the certificate of the Board of Public Works on all petitions or remonstrances relating to public improvements and requiring a majority of front feet of resident real estate to render them effective. The routine work of preparing canvass sheets from the Assessor's records, examining into questions of residency and non-residency, totalling of frontages, examination of signatures and submitting results to be verified by the Board is all done here, as well as the copying, for future reference, of all such petitions and canvass sheets. hundred and fourteen such petitions and remonstrances, representing 289,721 lineal feet, or almost exactly 542 miles of property. While the large figures quoted were so treated during 1894. give some idea of the amount of work involved, they in no wise indicate the difficulty and labor of obtaining results free from controversy and satisfactory to all parties interested. general ordinance relating to the construction and repair of frame buildings within the fire limits requires the consent of

certain property owners before permits may be issued, which consent must be certified to as adequate by the City Engineer. Of such petitions 185 were canvassed during 1894. Street railway and vacation petitions are now few and far between, but when presented are dealt with here.

WORK PERTAINING TO CONTRACTS.

The letting of contracts for public improvements, except when otherwise provided for by ordinance, is within the peculiar province of the City Engineer. If the work to be done consists of sidewalks or curbing, the Engineer publishes notice (sixty during 1894) to property owners that they may do the same privately within a certain time. Before contracts can be let for any species of public work, notices to contractors (108 during 1894) are published by the Engineer. Both such kinds of notices are verified by affidavits of publication filed and recorded in this office. One hundred and twenty-eight contracts for public work were awarded during 1894, bids for the same (running from one to ten per contract) registered, recorded and filed and the contracts themselves, when confirmed by the Common Council, were also recorded, with all endorsements, and filed in the department.

WORK PERTAINING TO SPECIAL TAX BILLS.

The preparation of all Special Tax Bills issued in payment of public improvements devolves upon the clerical force of the Engineering Department. A piece of work having been completed and the cost thereof computed and estimated, the Board of Public Works is notified that the same is ready for acceptance. A statement of computation is then prepared, as are also apportionment sheets in triplicate: one for the department, one for the Board, and one for the City Treasurer. The preparation of these sheets requires an accurate description of all property taxed, the superficies, frontage or valuation (according to the kind of work) of each lot or parcel of land, and the names of owners as taken from the Assessor's books, as well as

the necessary calculations to divide the cost as by law pro-Special Tax Bills are then prepared, registered in full and indexed by lot or tract number; and an order for delivery of same written. All of these are then submitted to the Board for verification and approval, and яt the proper receipts taken in duplicate from the party entitled to the tax bills after the same have been certified to and signed; and notice of their issue is duly published. A list of names of parties owning property affected is then prepared and furnished to the party receipting. All of the papers (except the tax bills themselves and two of the three apportionment sheets) above enumerated, as well as all assignments of tax bills, are recorded and filed for preservation here. The City Auditor is also notified in writing of the issue of each batch of bills and furnished with a statement indicating the number and amount of each bill, and how same are payable. Twenty-four thousand and seventy-three Special Tax Bills were issued during 1894, involving 30,613 separate signatures (over 2,100 of the bills being on the instalment plan). Incidental work included the recording of 329 notices of issue. It is the duty of one clerk to take charge of the Special Tax Books, satisfy on records and indexes all tax bills paid on statements furnished by the City Treasurer, make immediate entry of all notices of suits filed, and answer such inquiries relating to tax bills as citizens may make.

Work Pertaining to Condemnation Proceedings.

Attendance on condemnation juries in Mayor's and Circuit Courts is required of this department. When such a jury is empaneled the condemnation clerk goes with it over ground condemned, attends its subsequent meetings as required, makes any calculations called for and puts the verdict in legal shape to be rendered into court, describing all property damaged or benefited, stating its owner or claimant, and the amount to be paid therefor or assessed against the same, as the case may be. Eight such verdicts were rendered during 1894.

WORK PERTAINING TO INDEXING.

With the multitude of documents and records required to be kept by the department, a complete system of indexing has been found an absolute necessity. To the Special Tax indexes allusion has already been made. All ordinances and resolulutions recorded are also indexed by number and nature in a special set of books kept for the purpose, as are also bids, contracts, etc. An abstract of the essential parts of all ordinances and resolutions pertaining to tax bill work, of grading and condemnation proceedings, and of appropriations and estimates, is further posted daily in a series of "Work Record Indexes."

WORK PERTAINING TO CORRESPONDENCE AND MISCELLANEOUS.

The bulk of the departmental correspondence relates to the assessment of Special Tax Bills and is dealt with daily by the clerk in charge of the tax indexes. Notices, however, have to be sent at irregular intervals to contractors, assignees of tax bills, property owners and other persons, most of which is done by the use of printed postal cards. The miscellaneous work includes the preparation of pay rolls and monthly bills, the copying of quit-claim deeds, legal opinions and other documents of importance, and such other various duties as invariably fall at times to any clerical force.

DIVISION OF CURBING AND SIDEWALKS.

The division of curbing and sidewalks has charge of the construction, reconstruction and repair of all sidewalks and curbing.

The force of employees consists of one superintendent, one clerk and four inspectors.

In the repair work the City is divided into three districts. One inspector is assigned to each district, who is required to notify the property owners to repair defective sidewalks within ten (10) days; when such owners cannot be found or refuse or

neglect to repair within the time specified, the work is then turned over to the City contractor for the district in which the walk is situated, who is paid in Special Tax Bills, issued monthly, for work done.

During the fiscal year 8,249 notices have been issued to property owners to repair sidewalks. Of this number, 6,141 were complied with, 2,108 were done by City contractors, for which tax bills were issued amounting to \$7,641.37. The approximate cost of private work being \$10,000.00.

The construction of new curb and sidewalks is done by property owners under permit from the City Engineer, and such work as is not completed in the time specified by ordinance, is done under public contract and tax bills issued in payment for the same. We have issued to property owners 418 permits for curbing.

The first-class sidewalks constructed by property owners consist of 97,312 sq. ft. at an approximate cost of \$18.616.40; by public contract, 13,408.60 sq. ft. at a total of \$2,307.80, for which seventy-three tax bills were issued; the total amount of first-class walk being 110,720.60 sq. ft., costing \$20,987.20.

The property owners constructed 13.560 lineal feet of curb at an approximate cost of \$5,819.50. The various public contracts amounted to 11,822.50 lineal feet, at a cost of \$5,638.83, for which 273 tax bills were issued. The total curbing constructed amounted to 25,382.50 lineal feet, costing \$11,458.33.

The plank walk constructed consisted of 13,521.50 lineal feet of five-foot walk, which cost \$3,528.15; of this amount the owners laid 4,392.20 lineal feet, at an approximate cost of \$1,339.65, and the various public contractors laid 9,129.30 lineal feet, costing \$2,188.30, for which 231 tax bills were issued.

The total cost of all work done under the direction of this division during the fiscal year amounted to \$53,615.05.

PAVEMENTS.

Walnut street from Fourth to Fifth street was the only street paved with stone blocks during the year, and only one street was paved with cedar blocks, viz., West Ninth street from Mulberry street to the State Line. All the asphalt pavement put down was laid by the Barber Asphalt Paving Company, and so far as quality of material and workmanship are concerned, it is highly satisfactory, but the opinion is entertained by many who are well qualified to judge, that the same could be furnished at a considerably reduced price and still leave a liberal profit to the contractor.

BRICK PAVEMENTS.

There were laid during the year 48,369.2 square yards of brick pavement. On account of the unsatisfactory condition of some of the pavements previously laid, and the prevalence of widely different opinions as to what constituted a good paving brick, Judge John C. Gage, member of the Board of Public Works, advised the preparing of new specifications, prescribing certain physical tests which all brick should be capable of enduring before being accepted as street pavers.

Acting upon this advice, I prepared such specifications, which were approved by your honorable body on the 17th day of August, 1894. In prescribing these physical tests, I took into consideration the advantage to Kansas City which would be derived from the use of the product of local manufactories, and that these yards had quite large stocks already on hand at that season of the year; for which reasons it did not seem desirable to specify the most severe tests which choice lots would sometimes endure, but rather what I considered that either of the several plants within a reasonable distance from the City could with skillful management produce at a moderate cost.

Four separate tests were provided for, viz.: Absorption, specific gravity, resistance to abrasion or impact and transverse breaking strength, the last of which, however, has not been

applied for lack of suitable apparatus for making it. At the time these specifications were adopted there was no great necessity for making this test, for the bricks offered for pavements were so highly vitrified that there was no doubt concerning their transverse strength, but a series of abrasion tests made on both brick taken up from pavements that had been for some time in use and on new ones offered, showed what had been demonstrated in other cities, that excessive vitrification makes a brick strong to resist a carefully applied load, but it is also apt to leave it brittle or glassy and easily chipped to pieces from sharp, quick blows.

The makers find that by certain changes in their mixtures and methods of burning they can somewhat reduce this brittleness, but there is danger that in so doing they will at the same time reduce their crushing and transverse strength to a harmful extent. For this reason there is a growing necessity for our being prepared to test for this very desirable quality.

Next to the qualities of strength and toughness which can be determined by the physical tests above mentioned, is that of uniformity. One poor brick in a pavement is quite sure to cause the ruin of at least two others adjacent to it. The lack of this quality is the most discouraging feature of brick pavements, because it is in too many cases impossible for the inspectors to separate the defective from the acceptable bricks. Both, from outside appearance, are perfect; yet the inside of one is a thoroughly compact mass, while the other is so laminated and loose that, as soon as the outside shell or skin is broken, the whole is easily crumbled to pieces.

Although by so doing many good bricks will be rejected, the only way to insure good results is to reject altogether such lots of brick as are found to contain a large percentage of these concealed defects.

MACADAM.

With a view to eliminating some of the objectionable features of the common limestone construction, Independence

avenue from Woodland avenue to Walrond avenue, the Southwest boulevard from Main street to Broadway and Park avenue from Twelfth to Eighteenth street were macadamized by placing on a limestone base a wearing surface three inches in thickness of hard silicious stone; that used on Independence avenue came from the State of Wisconsin and is known locally as Berlin granite, and that for the other two streets from Carter county, this State, and is known as Carter county granite. The cost of Independence avenue improvement was \$1.24 per square yard, including Colorado sandstone crosswalks, and no maintenance after completion. For the Southwest boulevard and Park avenue, \$1.044 and \$1.07, respectively, including two years' maintenance and sprinkling. Neither of these improvements have been in use long enough to show whether or not they are so much superior to the common macadam as to justify the additional cost.

DISTRICT SEWERS.

In my opinion, Kansas City is fortunate in that the "combined" and not the "separate" system has been adopted in the construction of all district or local sewers.

In the earlier construction, some of the "dead ends" or branches which receive no storm water, except the little entering through house connections, were built too large for economical flushing; but this fault has been corrected in the more recent designs.

The public sewer in Nineteenth street between Holmes street and Locust street, and in Locust street from Nineteenth street to the O. K. creek sewer has less than half the capacity necessary for draining the area now tributary to it, which causes much inconvenience to the inhabitants, if not actual damage to health whenever heavy rains of any considerable duration occur.

To relieve this condition, a plan has been submitted for a joint district sewer in Nineteenth street, from Holmes street to the alley east, and thence south in said alley to the O. K. creek sewer.

The outlet to Sewer District No. 40 is another somewhat similar case to which my attention has been called, but I have not as yet been able to devote to it the study necessary for designing the best plan for relief.

The district sewers of recent construction, which have storm water catch-basins or inlets, have been given a theoretical capacity, when running full, of two cubic feet per second per acre drained, which amount is equal to a continuous rainfall of two inches per hour, with no deduction for evaporation, seepage or retention.

Sewers of this capacity have now been in use long enough to demonstrate that they are not too small for Kansas City conditions, excepting, of course, the possible occurrence of a "cloud-burst," which is a contingency for which it would be gross extravagance to attempt to provide.

Although in very few other cities are sewers proportioned for such an amount of storm water as here, the few data we have bearing upon the subject quite strongly indicate that the capacity given is not excessive when applied to small districts. On small areas the water reaches the sewers from all parts very quickly, therefore extremely heavy falls of short duration should be provided for; but on large areas much more time is required to concentrate the flow. The heavy falls of long duration, therefore govern in this latter case, requiring less capacity per acre for the larger sewers.

It seems that little or no reduction in the acre capacity of large sewers (excepting in the case of O. K. creek and possibly a few other public sewers) has been made, and very few measurements of maximum flow in the sewers have yet been made to determine at what rate the acre capacity can be safely reduced, as the area of district drained increases.

Gauges are being placed in a few sewers located in well built up portions of the City and a record of the flow from rainfalls of different intensities has been commenced; but this record must be extended over a considerable period of time before it becomes a reliable guide for the purpose required.

In the meantime, we can only judge of the capacity required by the experience of other cities and the fact that many small and medium-sized sewers have a theoretical capacity of two cubic feet per second per acre and that of the O. K. creek sewer is only about five-eighths as great, and so far each size has been found sufficient.

The sanitary condition of the district sewers would doubtless be greatly improved if all "dead ends," especially in the higher districts, could be supplied with automatic flush tanks, thus insuring regular and systematic flushing.

When the City obtains control of the water works plant, arrangements should be made for attaching these flush tanks to all dead end branches which have been found offensive, and for a more liberal use of them in future construction.

SEWERAGE OF THE EASTERN PORTION OF THE CITY.

There has been for some time past a demand for sewers in a part of the territory between Ninth and Fifteenth streets, Agnes avenue and the eastern City limits, but the proper point for the ultimate disposal is so far away from this section, that it was unwise to attempt to prepare plans for it without at the same time considering, at least in a general way, all other areas which in the future might need to join with it in the use of a common outlet. The natural drainage channel for this district is Goose-neck creek, which empties into the Big Blue river about one and a half (1½) miles above its mouth. The area tributary to this creek is about 3,350 acres, of which only about 1,110 acres are within the present City limits.

It seems safe to assume that the permanent improvement of this creek channel by walling up and arching over will not be necessary for a number of years to come, if only the offensive sewerage can be kept out of it. This can be accomplished by the use of interceptors laid near and generally parallel with the creek, so proportioned and arranged as to receive the dry weather flow from the district sewers, including what ground or spring water may find its way into them, and, in addition, the flow from very light rains, such as constitute over ninety per cent of the storms occurring in Kansas City; and having the excess from heavy showers to overflow into the creek channel and follow its natural course towards the river.

A considerable time and study have been given to determining the most judicious capacity to be given to the intercepting sewers, so as to prevent the discharge of offensive matter into the creek channel and at the same time avoid the expense of unnecessarily large sewers.

In order to design a harmonious system, it was necessary to adopt some rule or formula by which the different sections of the interceptors could be adjusted to the duty required of them, for upon such adjustment, very largely will depend the sanitary value of the intercepting system.

After a careful study of the local rain records, topography, soil, etc., gauging the flow of some of our most important sewers, and consulting the recognized authorities on the subject, it was decided to adopt a slightly modified formula of the well known Burkli-Zeigler formula, which has been pretty thoroughly tested in a number of eastern cities, for proportioning combined and storm-water sewers. Although not as complete in itself as might be desired, yet on account of its simplicity, the satisfactory results obtained from its use as above stated and the ease with which it can be modified in detail to suit local requirements, I consider it the best general rule of the kind for our purpose.

The adopted form is as follows:

$$Q = r \sqrt{s} A^{3} + c A$$

In which

Q = Required capacity of interceptor in cubic feet per second.

r :- Maximum amount of storm-water, measured by rate of minfall in inches per hour, which being collected by the district sewers will pass into the interceptor without overflow.

 $\mathbf{s} = \mathbf{The}$ average slope of the sewered district toward the interceptor in feet per thousand.

A = Area in acres of the district drained.

 $\mathbf{c} = \mathbf{T}$ he maximum dry weather flow of sewage and ground water in cubic feet per second per acre.

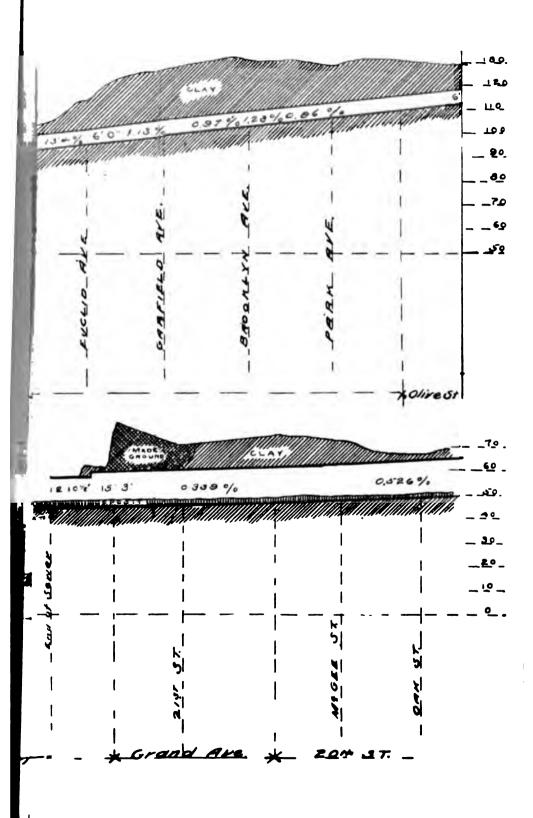
By substituting the numerals adopted to the conditions near the head of Gooseneck Creek, for the letters r, s and c, the formula becomes

$$Q = 0.25 \sqrt[4]{30} \times A^{\bar{3}} + 0.02 A$$

The value of "s" will be somewhat modified as we go farther down the creek and the value of "c," which was determined from gauging the flow in the Main street sewer, can safely be reduced twenty-five per cent or more when applied to large areas.

When the storm water from a large district is collected into one "combined system" sewer, like in the O. K. creek valley, before being intercepted, the first washings from different parts of the district arrive at such irregular intervals during heavy rains, that they cannot be as completely separated from the cleaner water which follows, as can be done when the interceptor extends too near the head of the drainage area and intercepts the district sewers more nearly in detail. the other hand, when the large sewer overflows into the creek, it is with such a volume that the little offensive matter contained in it is very soon carried over to the larger creek or For this and other reasons, which I will not here enumerate, the interceptor for a very large sewer like the O. K. creek can safely be given much smaller capacity, in proportion to the area drained, than one which intercepts a moderate sized district sewer near the head of the drainage area.

The formula above described in itself provides a variable ratio for interception from different sized districts, but other elements than the slope of the ground and area drained, each peculiar to the district or stream under consideration, should be given their proper value in the final adjustment of an inter-



PUBLIC LOS OF

cepting system; therefore neither this nor any other similar rule should be applied blindly to all cases alike, but only after a careful study of each particular district, and then as a relative rather than an absolute guide.

That portion of the area drained by the middle or Fifteenth street branch of the creek located within the present City limits, has been subdivided into eight districts for local sewer purposes, and interceptors designed according to the above outlined method, as far as the intersection of Fourteenth street and the eastern City boundary.

The City not being in control east of this point, is unable to issue Special Tax Bills in payment for a sewer extending to the Big Blue or to the Missouri river, and the available funds from the general revenue being insufficient for constructing one of the capacity which will be required, when the whole drainage area is improved; therefore, the most practicable expedient for supplying temporarily the needed outlet for this suburban district is to lay a small hipe outlet sewer from Fourteenth street and Cleveland avenue to a connection at Ninth street and Fairview avenue with the one laid last year from Cleveland avenue near Independence avenue to the Blue river for the use of Sewer District No. 89.

It is desirable that this work should progress with the least possible delay in order to allow those districts which are badly in need of and ready to build them an opportunity to construct their local sewers during the present season.

SEWERAGE DISPOSAL FOR THE O. K. CREEK VALLEY.

The question of the extension of the O. K. Creek sewerage system, has been discussed to some extent during the year; and some field work has been done at odd times during the winter, by the aid of which a map and profiles have been compiled showing in a general way the topographical features which must be considered in the solution of the problem. This problem has been acknowledged to be one of vital importance for many years, and each City Engineer has doubtless

investigated and at least in a general way, satisfied himself as to how it should be solved. The records of the office show quite clearly the work so far as they have been constructed, but little is found showing at all in detail what has been proposed for the final completion of the system, although some of the annual reports of former City Engineers show in a general way the plans which they considered best suited to the conditions. The work done has been sometimes criticised by the public, it seems to me rather harshly, considering the conditions under which it was executed. True it is that the first definite plan was abandoned after several thousand dollars had been expended and another radically different design adopted. It is therefore, but natural, that the public should infer that if one plan was right the other must be wrong; but it should be remembered that when the first plan was adopted, Twenty-third street was the southern boundary line of the City and the Engineer could not, if he had desired, have entered upon the construction of a sewer of sufficient capacity to receive the storm water from the whole water shed of the valley; neither should we forget the changed condition of Kansas City in the year 1886, when it was decided not to continue to its outlet this intercepting sewer as originally designed. In his report for the year 1886, the City Engineer (Mr. John Donnelly) recommended a closed sewer to take the place of O. K. Creek east of Baltimore avenue, and outlined his reasons for it as follows:

"The simple value of the land now occupied by O. K. creek, placing it at forty feet wide and extending from Grand avenue to Brooklyn avenue, estimated at \$75.00 a front foot, amounts to \$150,000, almost enough to pay for the main sewer. A large share of the cost should certainly be borne by the property owners in the immediate vicinity of the present creek channel, who would be most benefited."

This large sewer has been constructed, excepting the portion between Grand and Baltimore avenues, substantially as was then recommended, but neither the creek channel thus re-

claimed nor the adjacent lands which were specially benefitted, were assessed for such special benefits. This fact as a precedent seems to stand in the way of an extended application of the present Charter provisions for the construction of public and joint district sewers; considering the obstacles in the way of procuring funds sufficient for such extensive public sewer construction, this feature of the work seems now to have been a mistake.

The general features of the former plan, as stated in the annual report of the City Engineer (Mr. Wm. B. Knight) for the year 1883, were as follows:

The construction of an intercepting sewer north of, and generally parallel to O. K. creek, but located generally in the public highway, and extending, so far as at present contemplated, from Campbell street to a temporary outlet at Turkey creek, just north of the bridge on the country road. This sewer to be proportioned to carry off the flow of sewage proper and a small quantity of rainfall. Storm-water overflows to be constructed at a point where the main sewers are intercepted, and the rain water thence conducted in closed sewers, or open conduits, further south and discharged into O. K. creek."

From a sanitary standpoint, the two plans have substantially equal merit, and doubtless if the sum spent on the present large sewer had been expended in the construction of properly proportioned interceptors, O. K. creek would have been relieved of offensive sewerage; yet the entire disappearance of the creek channel east of Grand avenue can hardly be considered a cause for much regret.

My own examination and study have been confined to the territory west of Grand avenue with a view to fully utilizing that which has already been built, and at the same time looking to the ultimate complete and satisfactory disposal of the sewage of the whole valley.

Fortunately the best method of final disposal is so plain that it may be considered almost an axiom and merely stated. With the Missouri River only two miles from the mouth of the creek and topography favorable to leading the sewage from more than eighty per cent. of the valley into it, by gravity; dilution in that stream is the only disposal to be at all seriously considered.

The extension of the present large sewer down the O. K. and Turkey Creek channels to the Kaw River, would effectually dispose of the question if the sewer was made large enough to carry all the sewage and storm-water that would ever reach it and strong enough to work under the head that would be induced by the storm-water meeting back-water from the river, which during the higher stages, sets back to about Jefferson street; and provided further, that the Kaw did not in time become so polluted as to necessitate the exclusion of sewage from all streams and conduits emptying into it.

Such a sewer would cost several hundred thousand dollars to begin with and then when the time came for abating the pollution of the Kaw, another large expenditure would be unavoidable. Believing in the future dangerous pollution of the Kaw if the present system of the disposal of the Packing House refuse continues, and grows, whether this sewer empties into it or not, and that then both sewage and the other waste will be excluded by law, I decided that only such plans should be considered as would provide for conducting ultimately all offensive sewage to the Missouri River.

This conclusion is not new nor essentially different from what has been arrived at by some of the former City Engineers who have given the subject careful consideration, as may be seen by reference to their annual reports.

A detailed description of the different steps necessary to the development of a plan for this work would occupy too much space in this report, so I will merely outline the more important conclusions arrived at, viz:

The outfall sewer, extending across the west bottoms to the Missouri River, should be laid as high as the grade of the streets through which it passes will permit, to avoid unnecessary obstructions from back-water; but with sufficient fall to prevent silt deposits. When these requirements are satisfied we find that at Turkey Creek and Twenty-fifth street the inside bottom or flow line of the sewer will be about nineteen feet above the City directrix or not less than ten feet above the low water surface of Turkey Creek. Therfore in order to deliver the sewage into this outfall sewer without pumping, it must be diverted from the O. K. Creek channel at a still greater elevation. Our surveys show that the lowest point at which the creek or large sewer should be intercepted is at the east end of Belt Line avenue, near the intersection of Wyandotte and Twenty-third streets.

If funds are found too limited for continuing the large sewer from its present mouth to Belt Line avenue before intercepting, the head of the interceptor could be placed in Walnut street just south of the creek channel. In this case, it would be desirable for the interceptor to follow the south bank of the creek from Walnut street to Belt Line avenue to avoid the deep excavation necessary to laying it in Walnut and Twenty-third The grade of the sewer should be laid low enough to allow it to pass under the creek at Wyandotte street, thence by way of Belt Line avenue, Twenty-fourth street and the Southwest Boulevard and Twenty-fifth street to the head of the outfall sewer at the interception of Twenty-fifth street and Fair-At this point a "sand catcher" or small covered settling tank should be built for arresting coarse sand, small stones, etc., which might lodge in the outfall sewer at times when its current was slackened by the back-water from extreme high stages of the Missouri River.

If it is found necessary or expedient to construct the interceptor in advance of the outfall sewer, a temporary outlet can be made into Turkey Creek at this point. These sewers should be proportioned so that in addition to all the sewage and groundwater reaching them when the district is fully built up, they will receive the water from very light rains and some of the first wash from heavier ones.

Judging from the experience of other cities and the gaug-

ings of the Main street sewer, and of O.K. Creek below Twenty-third street, which have been made during the past winter, I would recommend for the interceptor a diameter of about 5 ft. 7 in. at Twenty-fifth street and Fairmount avenue, and about 5 ft. 3 in. at the east end of Belt Line avenue. A sewer of this size with a fall of one in 400 (which is the rate which should be adopted) when carrying seven times the present dry weather flow would only be taxed to less than one-third of its maximum capacity. The outfall sewer having a fall of only one in nine or ten hundred, should be elliptical in section, and about 6 ft. x 7 ft. in diameter.

For lack of time a complete detailed estimate of the cost of this work, including "Automatic Regulators" for the larger intercepts, settling tanks, etc., has not been made; but a fair approximation would be for the outfall sewer \$110,000.00 and for the interceptor, if continued up to Walnut street, including regulators and other special construction, \$65,000.00; or allowing for contingencies, a total of about \$200,000.00. If the large sewer were continued to Belt Line avenue and the interceptor carried from thereon, the cost would be greater, but the final result would doubtless be more satisfactory.

In recommending this project, the fact has not been ignored that there will remain, after these two sewers have been completed, several hundred acres of the drainage area lying too low to be drained into them without pumping, and while the field surveys have not progressed far enough to allow me to indicate the location or size of the additional sewer and pumping station which may in time become necessary for the completion of the system, I have considered them in a general way in connection with the outfall sewer and find that when the time comes for separating the sewage from this low ground from the water in Turkey creek, a small pumping station can be erected adjacent to the Turkey creek water works pumping plant, and lift it from a low level interceptor into the outfall sewer at a comparatively small cost.

As it becomes expedient to continue the large storm-water

sewer below the head of the interceptor, it should follow generally the channel of the creek. The circular form could then be abandoned and the section changed to a slightly concaved bottom between parallel bench walls and so proportioned that its roof at any particular point may be either flat or arched, or left off entirely, depending on the nature of the improvements to be made on the ground through which it passes. A portion, at least, of the cost of this storm-water channel should be borne by owners of the land reclaimed or benefited.

I may add that if nothing more is done this year in the O. K. creek valley, the channel of the creek for a distance of about 1,200 feet below the present mouth of the sewer should be deepened, so as to make a free outlet for the sewer. The flow line of the sewer at its mouth is about three feet below the bed of the creek, the result being the same as if a three-foot dam were built in the sewer's mouth, viz.: a heavy deposit in the bottom of the sewer, as shown by the profile, extending nearly back to Harrison street and reducing very materially the capacity of the sewer.

STREET PAVING CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 15, 1895. ASPHALT.

No. of Bills		•		2	101	2	¥0.		Ē	£	911	:	9.	188	œ	=	:	•	7.0		1,198	_
Cont.		4,132.41	9,372.95	33, N58 . 49	56.8NO H7	19,776.00	21,286 16		19,001.40	12,71H SH	2H 880 54		15, 474, 20	24,277.75	4,90H.44	69 ()62 4()		2,219.11	6,501.25		808,754.62 1,198	
Cost Per Sq Yd		62.65	2 2:		2 65	3 .	3.HO	5	3	3.6	2.57		≆	2.50	3.₹	5	;	2.68	2.50			-
Square Yards.		1,559.40 62.45	8,720.90 2.50	12,774.90	21.275.80	7,910.40	7,602.20		00.454.00	4,908.30	11.027.06 2.57		5,526.50	11,811.10	1,717.80	20 240 RO		837.40	3,600.50		27,221.70 118,460.26	
Lineal Feet.		202.60	9KG. 10	1,773.80	3.4H2.(N)	1,923.50	1,450.00		7.	1,141.70	2 675.00		1,811.20	2,914 00	502.HO	A 740 90		286.50	941.40		27,221.70	-
Foundation.	2 in bituminous concrete on	old concrete	4 in hydraulic concrete	old concrete	old concrete	4 in hydraulic concrete	in. hydraulic concrete	4 in. concrete, 1% in. bitumin-	1% in bituminous concrete old	concrete	in hydraulic concrete,	15; in. bituminous concrete, 5	1% in. bituminous concrete, old	concrete	Crete	1% in. binder course, 4 in. con-	11/4 in. binder course, old con-	Crete.	draulic concrete		ard.	
Thick- ness Inches.	a			~	~		, ,	~	~	ì		~	2,1	•		<u>.</u>	67	•	•	- ;	square y	
Former Pave- ment.	CedarBik		e co Z	Cedar 131k	CedarBlk	None		CedarBik	CedarBik		Cedarbik	None	CedarBlk	2	BIIO N	CedarBik	CedarBlk	N		- -	, 82.64 per	:
To.	Walnut St		Olive St	St. Trible N. line Ninth St.	St Cedar Blk	5 Z		: -	St. (West)CedarBlk	To Top I	Forest Ave Indep. Ave I Welltu St Cenarbik	Eleventh St E.line Grand Ave E. line Cherry St	Locust St Eighth St Fifteenth St	Dollimone Am	Thirteenin St Walling St Dallinge Ave	Fourteenth St Broadway Virginia Ave Cedar Bik	· · · · Walnut St Cedar Blk	Thirting S. W. A. M. C. B. C.		!	5 16-110) miles. Average cost, 62.64 per square yard.	
From.	Main St	, ,	Carheld Ave	St. Thirte	St	Prospect Ave		Twelfth St Rifteenth St.	Twelfth St		indep. Ave	E.line Grand Ave	Eighth St	11/212	Wallut St.	Broadway	Main St	Thirteenth C.		_	5 16-100 n	
Street.	Fourth St		Grand Ave	7 V T T T	Crand Ave.	Seventh St		Holmes St.	DIOGUWAY		Forest Ave	Eleventh St	Locust St	Thirtenant C.	I mineemin St	Fourteenth St	Fifth Street	and blades				

STREET PAVING CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 15, 1895.

MACADAM.

From. To.	Former Pave- ment.	Specifications.	Lineal Feet.	Lineal Square Feet. Yards.	Cost per Sq. Yd.	Cost.	No. Bills.
enty-Fifth St	None 1 in. cr	usher screenings, 12 in.st	1,264.30	3,233.90	80.4912	\$1,600.78	22
teenth St	None 's in. s	Park Avc Twelfth St Eighteenth St None 's in screenings, 3 in. granite, 9 in. 2,770.60	2,770.60	8,399.60	1.07	8,987.57	8
Lydia Ave Independence Ave. Eighth St		None 1 in. screenings, 6 in. Bethany Falls imestone, 6 in. limestone	997.70	3,469.70	.58%	2,029.77	8
Southwest B'v'd Main St Broadway	None	None 7 in. Telford base, 8 in. Carter Co. granite, ha in. screenings 1,805.00 6,668.80	1,805.00	6,668.80	1.04%	6,968.90	8
re cost, 89 9-10	1.29.100 miles. Average cost, 89 9.10c per square yard.	j.	6,887.60	6,887.60 21,772.00		\$19,587.02	888

STREET PAVING CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 15, 1895.

GRANITE BLOCKS.

							1 1 1		
Street.	From.	Ţ.	Former Pave- ment.	Specifications.	Lineal Feet.	Square Cost Yards. Sq Yd.	Cost per Sq Yd.	Cost.	No. of Bills.
ut St	N. line Fourth St	N. line Pifth St	Ced. Bk	Walnut St N. line Fourth St N. line Fifth St Ced. Bk On old concrete, 2 in. sand, with	829.50	1,288.80 62.47	82.47	68,077.84	oc
	0 6-100 miles.	0 6-100 miles. Average cost, \$2.47 per square yard.	7 per squ	are yard.	829.50	1,288.80	\$2.47	1,288.80 62.47 68,077.84	

STREET PAVING CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 15, 1895.

BRICK.

								il			
Prom.	T.	Former Pave- ment.	Spaces between Bricks.	P.	Foundation		Lineal Feet.	Square Yard:	Cost per Sq. Yd.	Cost.	No. Bills.
line Third So		Ced. Bk	Sand	2 in. sand,	old concrete.	rete	190.20	129.40	11.28	549.63	
N. line 18th St	N. line 15th St None	None	Sand	2 in. sand.	6 in. con	crete	901.30	2,524.80		8,989.18	£.
Ninth St	Tenth St	None	Sand	2 in. sand,	6 in. con	crete	415.80	1,413.20		2, 190.86	z
Main St.	Delaware St	Ced. Bk	Sand	2 in. sand,	old conc	rete	300.00	1,057.60		1,500.25	-
Broadway	Pennsylvania Ave	None	Sand	2 in. sand,	. sand, 6 in concrete	crete	712 70	2,486 50	1.45	3.617.86	2
Walnut St.	Grand Ave Ced. Bk	Ced. Bk	Sand	2 in. sand.	6 in con	crete	247.50	473.70	1.59	758.18	~
and Ave.	Grand Ave Locust St.	None	Sand	2 in. sand,	6 in. concrete	crete	650.70	2,774.90	3.	4,217.85	=
Ave.	Ave	None	Asph. Cem't 2 in. sand, 4 in. concrete.	2 in. sand,	4 in. con	crete	391 20	1,468.40	\$	2,481.60	=
/. line Penns	W. line Pennsyl- 390 ft. W. of Penn-		•			_		_			
vania Ave	sylvania Ave	None	Sand	2 in. sand,	sand, 4 in. concrete	crete	123.80	1,214.70	1.12%	1,755.24	•
Eleventh St	St. Ry trks. 18th St.	Ced. Bk		2 in. sand, old concrete	old con	rete		1,187.90	2.2	1,496.75	2
1. Louis Ave.	Union Ave	Ced. Bk		2 in. sand,	6 in. con	crete		1,110.50	1.54%	1,873.25	•
Summit St.	Madison Ave	Ced. Bk		2 in. sand,	4 in. con	crete		383.90	1.8	514.43	•
dep Ave.	Eighth St	Ced. Bk		2 in sand,	6 in con	crete	ä	4.312.10	7.	5,247.90	\$
N. line Fifth St.	Indep Ave.	Ced. Bk		3 in. sand,	in. con	crete		1,572.20	1 19	1,870.92	ಸ
Seventh St	Eighth St	None		2 in. sand,	6 in. cor	crete		1,076.80	2	1,345.88	2
rand Ave	Flora Ave	Ced. Bk		2 in sand	fin. cor	crete	3	16.848.00	1.28	21,565.44	20
Fifteenth St.	Eighteenth St Ced. Bk	Ced. Bk		2 in. sand.	old concrete	crete	1,417.20	5,543.70	1.23%	1, 546.47	z
2 49-100 miles.	iles. Average cost. 61.346 per square vard	1.346 per	Square var				18.181.40 45.977.80	45.977.80		61.914.79	3
		•		i		_			_		

STREET PAVING CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 15, 1895.

	No. of Bills.	109	8
	Cost.	69,689.98	69,689.93
	Cost per Sq. Yd.	61.05	
	Squar Yards	8,481.60	2,068.15 8,481.60
	Lineal S	2,068.15	2,068.15
CEDAR BLOCKS.	Foundation.	Ninth St Mulberry St State Line Cedar Blk Old concrete 2,068.15 8,481.60 61.05 89,689.99	iare yard.
CE	Former Pavement.	Cedar Bik	\$1.05 per squ
	To.	State Line	0 39-100 miles. Average cost, \$1.05 per square yard.
	From.	Mulberry St	0 39-100 m
	Street.	Ninth St.	

ALLEY PAVING CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 15, 1895.

VITRIFIED BRICK.

Between Froi	From.	To	Poundation. Spaces bet. bricks, sand.	Lineal Feet.	Lineal Square Cost Feet. Yards. Sq. Yd.	Cost per Sq. Yd.	Cost.	No. of Bills.
Seventh St and Fighth St Central StAlley immediately		Alley immediately East of May St	lley immediately East of May St 6 in. concrete, 2 in. sand 142.10	142.10	251.30 91.34	91.34	6836.74	•
Tenth St. and Eleventh St Garfield Ave Euclid Ave 4 in. concrete, 2 in. sand	Ave	Euclid Ave	4 in. concrete, 2 in. sand	\$77.30	369.70	1.84	195.40	2
A part of the Alley in Block 7, Coa tes' Addition,	ion		4 in. concrete, 2 in. sand	585 70	626.10	1.22.1	766.97	91
Walnut St. and Grand Ave1671; feet South of Ninth St	South of	Tenth St	Ninth St Tenth St 6 in. concrete, 2 in. sand 167.50	167.50	402.80	1.35	262 49	2
Troost Ave and Forest Ave Tenth St Bleventh St 4 in. concrete, 2 in. sand		Eleventh St	4 in. concrete, 2 in. sand	385 00	641.50	1.88	885.27	22
Number of contracts, 5. Miles, 0 295 Average cost per square yard, 91.274	ts, 0 295 Av	erake cost per squa	square yard, #1.274.	1.557.60 2,391.40	2,391.40		63,046.87	2

RECAPITULATION OF STREET PAVING CONSTRUCTED DURING FISCAL VEAR ENDING APRIL 15, 1805.

Average No. of total per year of total		-	- ·		9	-	 = ==
Average Condition of the Condition of th		7	nnq -	;	-		
3		Pa to unt	go tue at	\$ 0 · · · B	n* *!n'!#	th bott us	or tra cate
Square bands		11:3 4:80 4:0	00 F15 1E	1 2 da mil	na iia co	114 1141 81	at ura cat
X E		a	2	93	2 7	ar	3
umber		01 145 15	# 84, 70	110 nzn	14, 181 40	2 tigs 19	CE 888 44
Number of Contracts	_	2	+	-	:=	-	25
		Trinidad Asphalt	Macadam.	Granite Blocks	Vitrified Brick	Cedar Blocks, Re-pave	

STATEMENT OF STREETS PAVED TO APRIL 15, 1895.

Material Used.	Lineal Feet.	Miles
sphalt	110,441.10	20.91
Macadam	55,181.90	10 . 45
Granite Blocks or Stone Blocks	11,816.00	2.14
/strified Brick	67,017 30	12 69
Cedar Blocks	195,593.80	37.04
		
•	439,549.60	88 25

CURBING CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 15, 1895.

Š.	Bills.	22		15								ŧ		64	91	22		æ		278
structed.	Cost.	8 332.56	568.24	85.46	682.41	731.58	292 HT	1,284.5H	1,607.10	761.77	862,85	1,049 03		1,048.99	758.61	1,161.93		285.40		111,458.83
Total Constructed	Lineal Feet.	843.00	1,820.60	286.90	1,709.90	1.946.70	768.20	1,655.80	1,891.00	1,917.90	1,985.50	2,718 80		2,618.40	1,972,90	2,938.70		823.20	1	\$5,688. h3 25,382.50
Public	Cost.	242.56	208.24	85.46	122 +	581.58	100.87	810.58	1,458.60	125.77	313.85	199.03		68.89	318.61	121.93		285.40	,	\$5,688.k3
Constructed by Public Contract.	Cost per Ft.	39 ½ C.	40c	48c.	391 c.	37c.	35c.	720	FBC.	391,c.	41c.	37 3 C.	,	88c.	86 1/4 C.	Sec.		:		
Consti	Lineal Feet.	618.00	520.60	286.90	309.90	1,571.70	288.20	1,125.80	1,716.00	1,077.90	765,50	1,338.80		168.40	872.90	338.70		823.20		11,822.50
Owners.	Cost.	00.06	360.00		260.00	150.00	192.00	424.00	148.50	336.00	249,00	550.00		980.00	440.00	1,040.00			ĺ Ĺ	65,819.50
Constructed by Owners.	Cost per Ft.	40c.	45c.	:	40c.	40c.	40c.	80c.	90c.	40c.	45c.	+0c		4 0c.	40c.	4 0c.		:		
Constru	Lineal Feet.	225.00	800.00		1,400.00	375.00	480.00	530.00	165.00	840.00	1,220.00	1,375.00		2,450.00	1, 100, 00	2,600.00		:	-	13,560 00
knes.	oidT onl		20	K)	, C	7	'n	_:	+	20	20	'n		20	ب	'n		•	1	
To.		Tenth St	Locust St	Pennsylvania Ave	Olive St	Twentieth St	Brooklyn Ave	S.line Waldo Pl.	Locust St	Flora Ave	Fifteenth St	Eighteenth St	:	Twenty-Ninth St.	Eighth St	Fifteenth St	A point 400.11 feet	west		age cost, 45c.
From.		Ninth St	Grand Ave	Broadway	:	Eighteenth St	Garfield Ave	Twenty-Third St.	Grand Ave	:	Thirteenth St		Twenty-Seventh	St	Indep. Ave Eighth St	Tweffth St	Pennsylvania Ave'A point 400.11 feet	_		15 contracts. Miles, 4.807. Average cost, 45c.
Side.		Both.	Both.	Both.	Both.	Both.	Both.	Both.	oth.	Both.	Both.	Both	Both.			Both.	Both.			cts. N
Street				:	٠,	:	Eleventh St	*Baltimore Ave Both.	+Eleventh St	÷.	:		:		:	:	Seventh St			15 contrac

*Curb and Gutter.
†Parkhurst's Combined Curb and Gutter.

FIRST CLASS SIDEWALKS CONSTRUCTED DURING FISCAL YEAR ENDING AP. 15, 1895. ARTIFICIAL STONE AND HEXAGON BLOCK.

.alli6.			2	2 2 2	~ ~ ;	=	<u></u>				12
ned.	Amount.		N 99		121.2	8.712.3. 21	819,610.66	1,182.54		244.00	620,987.20
Total Constructed	Square Feet.	3,830.00	19.200.30	10.868.20	200	21,004.20	102.584.20 619,610.66 70	5.666.40		2,470.00	110,720.60
Tota	Lineal Feet.	2,463 85	8, 180.08		38.38	3,500.10		944.40		191.00	18,565.38
Owners.	Amount.	\$ 2.640.00	80.55 11.00 10.00	1.784.40	7,386.60	3, 164.	617,305.40 17,126.98	1, 104 . 60		207.00	618,616.40 18,565,38 110,720.60 620,987.20 73
perty	Cost per Pt.	ន្តនេះ	222	325	2 :	ž		R		2	
Constructed by Public Contract. Constructed by Property Owners.	Square Feet.	13, 200, 00	17.070.00	8.922.00	00.046.41	00.086.71	49.722.00	5,520 00		414.00 2,070.00	97.312.00
Construc	Lineal Feet.	2,200 00	2,200.ta	1,487.00	00.086,4	2.930.00	15,003.16	\$20.00		414.00	42,870.80 16,837.16 97,812.00
Contract.	Cost Per Ft.	841.83 153.00	372.78 372.78	339.71	131.24	247.87	62,805.26	28.54		37.00	62,870.80
blic	Cost Pt.	S 75 E	7. E.		7	9		161		16	
cted by Pu	Square Feet.		_			2,424.30	12,862.20	116.40		400.00	09.804.81
	Lineal Foot.	263. N5 141 67	335.03	323.50	35.20	570.70	2,123.82 12,862.20	24.40		36 .08	2,224.20 13,408.60
'q	Wide	66	• • • 	• •	• •	•		•		.	'
	T. —	ndep Ave. 9th St.	Indep. Ave. Lex ton Av.	Lex ton Av. St John Av.	W'dl'd Ave. Briklyn Av.	Istn St		16th St		Indep. Ave.	<u>:</u>
	From.	Indep Ave. 9th St Troost Ave. For st	Indep. Ave.	Lex ton Av.	W'dl'd Ave.		STONE.	Wy'dotte St West. 14th St 18th St	BRICK.	Mo. Ave.	ts 20.97 miles
	Side	Both.	Roth	Both.		Both.	.	West.	~	East .	11 contracts
_	Street. Side.			Olive St	9th St	Harrison St		Wy'dotte St		Cherry St. East. Mo. Ave Indep. Ave.	110

1895.
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FISCAL YEAR ENDING APRIL
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CONSTRUCTED
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				'п	Constru	ucted by Contract	Constructed by Public Contract.	Constru	ucted by 1 Contract.	Constructed by Private Contract.	Total Constructed.	structed.	
Street.	Side.	From.	To	Midi	Lineal Feet.	Cost Per Lin. Foot.	Cost.	Lineal Feet.	Cost per Lin. Foot.	Cost.	Lineal Feet.	Cost.	No. o Billa
Vine St	East			100	178.20	Cts. 43.75	17.96	1,200.00	Crs.	00.019	1,878.20	\$ 617.96	
riora Ave	. west	Eighteenth St	Eighteenth St	10	15.80	22.5	8.55	109.20	25	27.80	125.00	30.85	_
Missouri Ave	South	Tracy Ave	Lydia Ave	•	849.00	24.99	87.21				849.00	87.31	
Charlotte St Washington St	West	I wenty-Fifth St	50 feet South		360.00 246.20	28.75	8.8	8.8	2 2	8.8	346.20	110.50	2.
Walrond Ave	West		Thirteenth St	10	376.70	24.5	92.29	20.00	22	12.50	426.70	104.79	
College Ave	East.	Twentieth St	Twenty-First St	ده د	408.40	25	20.03	8.8	88	3. 8	204.40	124.05	2:
Fourteenth St	North		Euclid Ave	o 10	368.80	25.0	96.98	170.00	3 23	25.50	538.80	182.85	
Thompson Ave	North	North Walrond Ave	Eastern City Lim	10	776.80	22.5	174.66	1,100.00	22	275.00	1,876.30	419.66	
I wenty-Sixtn St.	Z Z	Michigan Ave	Progner Ave	0 4	266.20	2 28	2.62 2.62	260 00		65 00	266.30	128 78	
Park Ave		Eighteenth St	Nineteenth St		482.90	25.5	123.13	160	2 %	41.60	612.90	164.73	
Pacific St			Lydia Ave	*	418.70	29.75	124.56		:		418.70	124.56	_
Bellefontaine Ave.	East				121.50	28	32.20				121	83.50	
Ord St.	_	Fina St	Amie St.	٥ ٦	241 90	8. 8 .	43.54	3	9	8.0	241.90	48.54	
West Prospect Pl	East	Twenty-Eighth St.	Twenty-Ninth St	. 10	665 50	23.5	156.39				665.50	156.89	8
Wabash Ave	. West.			\$	155.80	86.12	34.26	300.00	2	75.00	455.80	109.26	_
Chestnut Ave	East	Twenty-I hird St.	Twenty-Fourth St.	20	274 10	21.99	60.27	212.00	52	23.00	486.10	118.27	_
		21st and 22nd Sts.	Twenty-Third St	2	522.40	21.99	114.87	:	:		522.40	114.87	8
Twentieth St	South	Indiana Ave	Mason Ave	20	267.50	21.9	58.58				267.50	58.58	~
Walnut St	East	Second St	Third St	•	118.00	 92		185.00	22	46.25	308.00	72.15	•
Mason Ave	. West.	Twentieth St.	Twenty-First St	.	433.10	21.873	94 52	:	:		482.10	94.52	=
Agnes Ave	Fast	Twenth-Third St	Twenty-Fourth St.	**	189.70	21.5	105.	:	:	:	489.70	105.28	=
Fourteenth St	South	South Alley immed. East	Ave	•	185.70	21.99	29.84				185.70	29.84	_
	_	of Olive St	Prospect Ave	20	310.90	21.99	68.86	140.00	22	85.00	450.90	103.86	
Genessee St	_	In fr. lots 889,890 an d 391 Madison Pl	d 391 Madison Pl	20	100.00	21.5	21.50	:	:		100.00	21.50	
ouri Ave	North	Campbell St	Harrison St	5	292.00	66.	64.21	: ;		-	292.00	64.21	_ !
ontracts. 2	M miles	98 contracts 9 88 miles A verses contract from \$1 9 miles	ineal face of 941		190 90	_	00 188 90 1 00 1 00 1 00 1 00 1 00 1 00	200		20 000 10		90.00	29

STREETS GRADED DIRING FISCAL YEAR ENDING APRIL 16 1898

1		No. o	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	E
1		Cost	5.724 412 7124 412 7124 412 7124 412 7124 412 7124 412 7124 412 7124 712 712 712 712 712 712 712 712 712 712	907.81
· .	Rap.	Price per Cu. Yd.	73°C	
	Rip-Rap.		6 <u>1</u> 2	8
	2	Price Cu. Yd	15.00 #8c 24.00 #2*sc 54.00 #12*sc	
	Drain Pipe	Sich Lineal Price Cubic	2 2 2 3 3 5 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	127.00
ĺ		Size, Inches	25: 2: 2: 25:	
	ds Stone.	Price per Yard.	90 17c 27c 27kc 27c	
- 1	Cubic Yards Stone.	Excava- tion.	3, 777, 70 2, 507, 70 649, 10 1, 300, 30 883, 20	
		Price per Yard	8 01 ¢	Trench
' 	Cubic Yards Earth.	Price Embank Price	3, 728 10 8c	7, 502,00 913.00 54.00 53.00 53.139.00 13.249.50
	ubic Ya	Price Verd.	13.20 9c 11c 18.30 9c 9c 18.30 9c 11c 18.30 11c 11c 11c 11c 11c 11c 11c 11c 11c 11	915.00
		Excava-	+1-+ 2-+	Ft, B.M.Oak Lum 7,502,00 915.00 32,129.00
		Feet.	275.80 659.00 865.00 274.00 274.00 2,071.00 445.50 2,071.00 829.00	1,819.00 Ft. B.M.C 7,502,00 9,479.83 32,139.00
		J.	Ave. Cherry St. 1, 247, 70 Ave. Cherry St. 1, 247, 70 yiv. Ave. Jefferson St. 265, 90 yiv. Ave. Jefferson St. 265, 90 Jyn Ave. Olive St. 445, 50 Bouley d. W. Prospect Pl. 247, 100 yin Ave. Olive St. 445, 50 yin Ave. Olive St. 445, 50 yin Ave. Olive St. 465, 50 yor (Dora Scarritt Ave. 289, 00	odland Ave.
		From.	Washington St. Grand Ave. 3th St. Pennsylv. Ave. Doak Si. Brook Na. St. M. Boulev d. Brooklyn Ave. S. W. Boulev d. Windsor (Dora Ave.	Tracy Ave 'Wo
		Street	## St. Washington St. Pennsylv, Ave. 12 11th St. Washington St. Cherry St. 113 W. Prospect Pl. St. b. St. St. St. St. St. St. Pennsylv, Ave. efferson St. 14th St. Pennsylv, Ave. efferson St. 15th St. Prooklyn Ave. Olive St. 15th St. Pharrison St. St. St. St. St. 15th St.	#6tb St Tracy A

1895. ALLEYS GRADED DURING FISCAL YEAR ENDING APRIL 15.

](5.	No. d	20 11 13 10 4 5 5 0 1 1 1 3 5 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8
	Cost.	265.07 634.97 90.25 168.08 194.51 108.59 124.32	
	Pipe.	12"— 72 ft	
ards	Cost	Cts. 30 30 30	
Cubic Yards Stone.	Exca-	Cts. 255 30 30 1779 90 30 13 00 30	8
	Cost	Cts.	
Cubic Yards Earth.	Excava- Cost Embank- Cost tion. Yard ment. Yard	Cts. 1,472 60 18 255.30 30 12"—72 ft 1,035.00 14 8-9 179.90 30 30 30 30 30 30 30 30 30 30 30 30 30	
oic Yar	Cost Per Yard	Cts. 77% 45 30 30 27	
Cul	Excava-	Cts. 1,472.60 1,146.00 778, 2,790.40 1,146.00 778, 1,095.00 812.80 45 542.90 414.40 30 542.90 857.00 27	000
-	Feet,	625.00 610.00 603.80 277.60 216.00 601.85 289.52 289.52	
	To.	24th St. 21st St. 28th St. Euclid Ave. Lydia Ave. Lydia Ave. Add'n and N. Ine B'dway Add'n and N.	
	From.	228rd St. 228rh	
	Between.	Belleview Av and W. Prospect Pl. 23rd St. Belleview Av and W. Prospect Pl. 20th St. Belleview Av and W. Prospect Pl. 20th St. Olive St. and Wabash Ave. Immediately South of 10th St. Immediately South of 10th St. Immediately South of 13th St. Virginia Av and Lydia Ave. Immediately South of 13th St. Washington St. W. line B dway Immediately South of 13th St. S. along said Add'n and N. Jefferson St. and Pennsylv. Ave. 11th St. Inth St. St. Add'n and N.	

18.00 : Average Depth. : DISTRICT SEWERS CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 15, 1895. Price Per Foot. 18.19 8 21-inch. 198.0 1.898 Lineal Feet. 15.00 : Average Depth. Price Foot စ္တ 91.40 18-inch. 582.1 2,042.4 Lineal Feet. SEWERS 0.11 Average Depth. : Price Per Foot. 8 15-inch. 8,888.8 Lineal Feet. HIPE : Average Depth. 14.5 Price Port န္ဓ **2** 2 13-inch. 866.8 25 E Lineal Feet. = 15.00 Average Depth. Price Port 8 3 8-inch. Lineal Feet. Catch Basin Connections 12 inch Pipe 885 Price per Foor 888 383 5,189 5,734 6,000 Ordinance Number. Joint #9 #9 90. District Number.

DISTRICT SEWERS CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 15, 1895.

CONTINUED.

		Average Depth.	10.0
	86-inch.	Price per Foot.	
	*	Lineal Feet.	246.5
		Average Depth.	. 10
	84-inch.	Price Per Foot.	88.40
	₹	Lineal Feet.	18.00 829.7 63.4 0
		Average Depth.	18.00
ø	90-inch.	Price per Foot.	
BRICK SEWERS	8	Lineal Feet.	15.00 542.9 62.52 18.00 829.7 63.40 11.5 246.5 63.86 10.0
Ø		Average Depth.	15.00
LCK	28-inch.	Price per Foot.	
BF	-88	Lineal Foet.	888.5 \$1.75 10.00 1,068.8 \$2.18
		Average Depth.	0.01
	26-inch.	Price per Foot.	1.75
	36	Lineal Feet.	
		Average Depth.	14.8
	24-inch.	Price Poot	25
	*	Lineal Feet.	798.1 92.18
.16	quan	Ordinance 1	5,479 5,189 5,000
•	umber	N initial	Joint 84-104 89 90

DISTRICT SEWERS CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 15, 1895.

CONTINUED.

		,	
	1	Average Depth.	14.0
1	58-inch.	Price per Foot.	14.0
	**	et.	13.0 341.8 86.42 14.0
. !	:	Average Depth.	. 0
- 1	54-inch.	Price Per Foot.	
	कें !	Lineal Feet.	H. 50 14.00 788.5 65.68
ed.	- ' ! !	Average Depth.	9
irinu 	16-inch.	Price per Foot.	
BRICK SEWERS-Confinned	9	Lineal Foot.	15.00 830.7 83.65 7.00 493.4 44.50
V EX		Average Depth.	7.00
と出の	12-inch.	Price per Foot.	63.65 7.00
RICK	\$	Lineal Feet.	64.80 115.00 8890.7
E :		Average Depth.	15.00
!	10 inch.	Price per Foot.	8
ļ	\$	Lineal Feet.	380.1
1		Average Depth.	
İ	34-inch.	Price Per Foot.	
!	*	Lineal Feet.	823.3 64.00
.16	dani	Ordinance !	5,479 5,189 6,000
•	ımben	District M	Joint J 94-104 (89 98 98 176

DISTRICT SEWERS CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 15, 1895. CONTINUED.

Flush Tanks.	Price.	9.0
Fly	No.	w
3r.	Price per M.	6 20.00
Lumber.	Feet B. M.	24,268.00
. ,	Price.	8.50
Masonry.	Cubic Yds. Price. Cubic Yds. Price.	2.88 e3.50 881.00 e3.50 24.288.00 e20.00 e0.00
ė	Price.	8.50
Concrete.	Cubic Yds.	83.50 8.00 2.83 88.50 831.00 83.50 24,268.00 620,00 6 60.00
avation.	Price.	\$3.50 3.00 3.50
Rock Excavation.	Cubic Yds.	96.80 2,491.30 6.66
Catch Basins.	Price.	\$26.00 29.50 28.00
Catch	No.	88
Manholes.	Price.	\$27.50 \$10.00 17.50 30.00
Man	o X	2, 11, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
ce Number.	nsatbīO	5,479 5,189 6,000
с Иитрет.	Distric	Joint (94-104) 89 90

DISTRICT SEWERS CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 15, 1895.

CONTINUED.

No. of	Bills	160 1,247 16 64	1,487
Total	Cost	913.88 79.253.94 429.50 1.237.09	641,831.41 1,487
Total	Lineal Feet.	34, 623, 30 533, 30 735, 10	36,813.70
	Price.	1.50	
Rip-Rap.	Cubic Yards. Price.	161.140 60c 291.000 8sc 15.60 61.50	i 1
inage.	Price.		i
Pipe for Drainage. 15-inch.	Lincal Feet.	291.00	iles.
inage.	Price.	0.99 C	acts. 6.97 m
Pipe for Drainage.	Lincal Feet.	3,479 2,026.ed 4nc 161.00 60c 291.00 88c 15.60 01.50 61.00 61.00	4 contracts, 6.97 miles.
on Pipe.	Price.	Just	1
Galvanized Iron Pipe.	Lineal Feet.	2,026.00 40C	•
c Zumber.	onsaub10		I
Number.	District	Joint (24 / 141)	1

REPAIRS FIRST-CLASS SIDEWALKS AND CURBING DURING FISCAL YEAR ENDING APRIL 15TH, 1895.

No. of Bills.	117
Total Amount.	6 898.29
Stop Boxes. Number.	7
Repairs Sidewalks. Square Feet.	604.20
Redress Curb. Lineal Feet.	
Reset Curb. Lineal Feet.	2530.45
New Curb. Lineal Feet.	695.56
District.	General

REPAIRS SECOND-CLASS SIDEWALKS

		No. of Bills.	681	662	879	1,991
	11	Total Cost.	61,934.51	2,997.20	1,911.87	\$6,743.08
15, 1895.	1	Grading. Cubic Yards.	55.00	129 00	182.00	366.00
DING APRIL		Old Lumber. Feet B. M.	8*,433.07	126,815.49	10,425.06	225,673.62
L YEAR EN	-	New Lumber. Feet B. M.	19,087.89	116,017.87	18.919.31	261,954.07
DURING FISCAL YEAR ENDING APRIL 15, 1895.		District.	District No. 1	District No 2	District No. 3.	

PUBLIC SEWER CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 15, 1895.

PUBLIC INTERCEPTING SEWER, FROM EASTERN CITY LIMITS TO BIG BLUE RIVER, ORDINANCE NO. 5874, APPROVED JUNE 14, 1894; COTTER, McDONALD & CO., CONTRACTORS.

12-inch Pipe Sewer. 18-inch Pipe Sewer. Sewer. Sewer.
Lineal Feet. Cost Lineal Feet. Cost Lineal Feet. Der ft. No.
83c. 72.00

PUBLIC WORK CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 15, 1895.

1	Amount.	•-	01,750.00 01,613.45
1	Appropriation.	\$ 500,00 1,040,00 210,00	6 1.750.00
	Contractor.	K. C. Stone Sidewalk Co. Barber Asphalt Paving Co. H. S. Trestrail.	
AUTHORIZED BY ORDINANCE.	Specifications.	Constructing granifold sidewalks and curb on S. side of Public sq. K. C. Stone Sidewalk Co. • 500, 00 Paving a part of the Public square Constructing sidewalk and stainway along southerly line of Morse's Second addition.	
	Ordinance. Number. Date Approved.	Sept. 7, 1894 Ank. 28, 1894 Nov. 9, 1894	 -
	Number	5 465 5 479 6 185	

ENDING		A mount.	5.15 108.65 961.57 6.85 80.00 439.89 14.56 22.50 22.00 133.03 88.25
MISCELLANEOUS PUBLIC WORK CONSTRUCTED DURING FISCAL YEAR ENDING	APRIL 15, 1895. PAID FOR BY VOUCHER.	Specifications.	Repairing street pavement of Fourth St. between Main St. and Delaware St. Paving nersection of Fourth St. and Market House Paving east 12 feet of Market Sq. For 27-38, 1-48, paving at intersection of Thirteenth St. and Walnut St. For constructing lateral sewer on Reservoir Ave. from manhole on Mercier Ave. to a point 100 feet west For repairs and lowering sewer at intersection of Eleventh St. and McGee St. For constructing curbing on Seventh St. at southwest corner of Seventh St. and Brooklyn Ave. For constructing curbing on Seventh St. at southwest corner of Seventh St. and McGee St. For covertucing curbing on seventh side Seventh St. For covertugate, and southwest corner of Market Sq. For covertugate, intersection Fifth St. and Market Sq. For paving alley, intersection Fifth St. and Market Sq. For paving alley, intersection Fifth St. and Market Sq. and Prospect.
MISCELLANEOUS PU	•	Contractor.	F. P. McCormick Barber Asphalt Paving Co. James. O'Donnell Barber Asphalt Paving Co. W. B. Dickey. L. D. H. Russell. C. M. Gravens. C. M. Gravens. Barber Asphalt Paving Co. Kansas City Stone Sidewalk Co. Barber Asphalt Paving Co.

STREET SPRINKLING DURING FISCAL YEAR ENDING APRIL 15, 1895.

Street.			•)ate Sp	Date Sprinkled.	Time				- =	01 no 1200		
	From	 4	ir.	From.	<u></u>	Months	Days.	Cost per per Lines	<u> </u>	operty	Times pe Beducti Bring	raidriW P¥≅	Total Cost
					1		 -	<u> </u> -	1	1	_		
Breadway	Seventh St	Sixteenth St	Mar.	1. 1494		æ	2.24	2,244,00,2	8	975.23 8		312	•
=	Fifth St	Tenth St	Mar.	1, 1494	Oct. 31, 1494	æ	_	761.00 2 18-100				158	307 12
Charlotte St Fif	ifth St	Indep. Ave	Mar.	1, 1894		z		944 50 2 1-8	7			-1	
:	lain St	Summit St	Mar	1, 1,94	3; ;		~	元 (H) (2)	-	543,76 3			
Eighth & Ni	Vill St	Hickory St	Mar.	1, 1,94	≓	Ŧ	 	.339,00 2 1-3	7	, 259,00 3	10.70	_	_
:	Main St	Campbell St	Mar	1, 159	;	 8 	2.89	.893.00 13	9.7	5.00.1		<u>E</u>	
-	Eighth St.	Twenty-First St .	Mar.	1, 139	E		2.93	5,951,00,37	10.739.	39.64	:		-
	wellth St	Sixteenth St	Xar.	1. 459		• •	ÿ -:	Fr 60 139.	3 +3×	S 60 3		_	
:	hird St :	Indep Ave	Mar.	1, 1,94	≓.	æ	E6.1	See on 2 19-100	_	8 8 8	.	.96 138	
:	Ninth St	Fourteenth St.	 Z	<u>-</u>		æ.		2,173,00 1 10 1	3,522	e = ??		-	
:	Eighth St	Ninth St.	e X	<u>.</u>	<u>;</u>	•	£.	321.00.1.16	-	£. €	:	æ.	
_ :: :: ;	Fighth St.	Eighteenth St	Nar.	_	≓		1.54	.541 00 114	120° x	2 55 25	:		633.74
:	welfelt St.	I wentieth St	N S		=	s.	3,910	8, 916, 00, 21,	1.031.	3.5	:	_	₹ : :-
:	Jelaware St	Forest Ave.	. T .	÷.		on ·		_	_	7,530,05 8	:		159.10
ž	aghth St	Thirteenth St	Z	5.	<u> </u>	~	1.93	981 00 1 9-10	_	9 (1)	:	. ·	293,52
:	dud Ive	Locust St	<u>ت</u>		<u></u>	æ	ź .	8.4 5.5 5.8	_	. S. S.	:		_
:	Nather resident	State Line.			; ;	æ:	::		_	9	<u>:</u>	£ :	
	16 31	Mulberry St.			= :	z	*	01-1 2 00 158	_	2	:		
-	English St	Fighteenth St.		 	,	x	-	7:1 (M) 115't	#. •	7.947.61 3	:	=	
:	and Ave	Pennsylvania Av.	٦	1. 1.94		æ	7	7-52-18-1	e → 3	393.91	:	Ξ.	
:	irand Ave	Holmes St	Z 7	1. 189	≓.	æ.	-	548 00 13	- 2	2,559 24 3		_	
š	Madison Ne	Holly St	۶ X	7	₩. ₩.	×	66	927.00.2 17-1	9,1 00	.618.00	:	<u>.</u>	
St Louis Ave Un	mon Ave	State Line	N.	1, 1394	ž.	æ	3.8	3, 844, 00 2 1-5	6.921	27. 12	:	¥	
Irath St Br.	Broadway	Summit St		1. 149	Oct. 31, 1894	: **	1,340	0.00 134	?; %	8 ::	<u>:</u>	3	
	!	- 					! : I	- - !	 	<u> </u>		1	
•											_	- :	-
Ameant forward			:	:	:	:	28,100	0.30	101,510.05	10.03	_	4.538	86.140,09

STREET SPRINKLING DURING FISCAL YEAR ENDING APRIL 15, 1895, CONTINUED.

	71 MMM(1)	(Report of the Board of Public Works,	
		9.517.88 9.517.88 9.617.88 9.617.98 9.617.98 9.617.98 9.617.98 9.617.99 9.6	917,818.30
S S	Tax Bills.	23.8 10.3 11.5 11.5 12.5 13.6 13.6 13.6 13.6 13.6 13.6 13.6 13.6	8,831
ion to Cost Limit.	Reduct Bring Within	\$	
	Times p	**************************************	1
Lineal	of Property	101.510 2.200.0	177,219.51
Month sal Foot Cents.	Cost per per Line Street.	100, 50 618, 60 15 29, 60 2 1-6 29, 60 2 1-6 29, 60 2 1-6 20, 60 2	
Lineal Feet	of Street.	84,100,30 614,00,135 1,231,00,21 1,221,00,21 1,221,00,21 1,221,00,21 1,231,00,21 1,231,00,21 1,231,00,21 1,231,00,21 1,331,00,	101,253.50
je.	Days		:
Time.	Months	20 20 21 20 21 21 (+ (+ 10 10 (+ 10 (+ 10 10 (+ 10 10 (+	:
rinkled.	To	00000000000000000000000000000000000000	
Date Sprinkled	From	Mar 1, 1894 Mar 1, 1894 Apr. 16, 1894 Mar 1, 1894 Mar 1, 1894 Mar 1, 1894 Apr. 16, 1894 May 7, 1894 Apr. 16, 1894	
Ė		Mulberry St. Bell St. Twelfth St. Twelfth St. Twelfth St. Twelfth St. Twelfth St. St. Louis Ave. Eleventh St. Nimerenth St. Nimerenth St. Nimerenth St. Nimerenth St. Nimerenth St. Twelfth St. Twenty St. Twenty St. Twenty-Third St. Twenty-Third St. Fifth St. Twenty-Third St. Fifth St. Twenty-Third St. Fifth St. Twenty-Third St. Fifth St.	
		forward Liberty St. Numb St. First St. Numb St. Fourteenth St. Sana Fe St. Virgina Ave. Ligidh St. Liberty St. Fourteenth St. Fourteenth St. Fighth St. Fighth St. Fighth St. Fighth St. Fighth St. Fighth St. Fighteenth St.	ı ,
j	סון בכני	Amount brought Twelfth St. Twelfth St. Twelfth St. Wandotte St. Wyandotte St. Wyandotte St. Wyandotte St. Ruth St. Ruth St. Ruth St. Fortern St. Fleventh St. Fleventh St. Fleventh St. Fleventh St. Liberty St. Liberty St. Liberty St. Liberty St. Liberty St. Virtin Ave. Virtin St. Wyoming St. Wyoming St.	47 Contracts

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Total Cost.		960 (90	1,545,60	341.55	331.20	838.33	953.20	9 9 9 9	1,217,46	00 Z9F	1.0%	1,143.30	E :	0. 6 24.	00.128	9	8, E	112.00	1		\$11,908-03	
No. of Tax		5.	Ę	ž	ž	Ξ:	3	919	3.50	:	5 5	516	-	Ŧ ?	2	701	162	63	ı		1.656	
lineal Feet Property.		3,227,00	92 169 1		1,970.00	279.4		41.838.9	021.40	2,210,90			3,316,12	200	10.25	10, 134, 16	4.569.29	2,319,63			93,655 47, 1,656	
Lineal Fret Street.			••	-	-	2,965 00	-		ဘ	7:	3.3		6.76			3.96	3.566	1,277,00	1	_	54,545.00	
Saines!') 190	Cost i	5, 10	± 22 23	6		27	£ .	. E	?	=	2 2	= '		6.4		13.95	ŝ	3.20				
s per Week.	-	25	69 73	3 6	?: ;;	50 F	<u> </u>	- -	3 2 3	3 · 105	3 3 8	3 E E	? ?	, -		3		£				
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	e PoM	t. 31, 1491	≅.	≅.	<u>~</u>	 ;		.		÷.	Ξ,	7 .			: 5	Ē	v 80, 1594	30, 1891				
Dates Cleaned	From	Mar. 1, 1894 Oct.	1861	3, 17, 5	165		Mal. 5. 1855 Oct.	_	7	154	7	3, 7,0		une 1, 1591 Nov	-	100	16 1891	Vpr. 16, 1594 Nov.	i	_		
e L	ī		:	_	:		-	Twenty the St		Santa Fe St	Hickory St	Nimth St	Fourtecath St.	Forest Ave	Woodland Ave		:	:				
T. From		Twelfth St	•		Santa Fe St	Campbell St	From A V.	Vinth X	Twelfth St	Unon Ave.	Elen St Bridge	Third St	Se comm St	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	:	Valent St	Werdamed Aso.	Indep Ave	1			
Street.		Bell St	Broadway	Central St	Eleventh St	Fiftee with St.		Created Ave		St. I ouis Me	I men tve	Walter St	V. c. Billigion St	Silitin St	To the training of the	Independence Ave		Wor dland Ave				

STREET CLEANING AND SPRINKLING DURING FISCAL YEAR ENDING APRIL 15, 1895.

RECAPITULATION OF STREET CLEANING AND SPRINKLING DURING FISCAL YEAR ENDING APRIL 15, 1895.

3			_		
	mou nt.	6 17,818.30	11,908.03	14,99h.67	644,715 00
	Number of Tax Bills.	8,331	4,656	3,390	16.367
	Average Cost Average Cost Number per Lin. Ft. of Property. Street. Tax Bills.	6 0.1759	.2181	. 4002	<u></u>
	Average Cost per l.in. Ft. Property.	6 0. 1005	. 1271	23.EZ	
	Miles.	81.61	10.34	3.06	36 58
	Lincal Feet of Street.	101,253.50	54,585.00	37,262,50	193, 101.00
	Number Lineal Feet of of Contracts. Property.	177.219 54	93.655.47	97 986 19	3.111 62
	Number of Contracts.	: : \$	2	; ,	'
1.			:	:	
1	Specifications	Sprinkling	Cleaning	Cleaning and Sprinkling,	
:		Sprinkl	(leanir	(leann	

STREET PAVING UNDER CONTRACT AT CLOSE OF FISCAL YEAR ENDING

TURE TURE		
TO TICOTO IN	15, 1895.	ALT.
MING CADEN CONTRACT AT CHOSE OF FISCAL LEAR	APRIL 15, 1895.	ASPHALT

	Total Cost.	\$8,567.50	\$8,567.50
Approximate Estimate.	Square Cost per Yards. Sq. Yd.	\$2.50	
pproximat		3.427.00	1,206.41 3,427.00
•	Lineal Feet.	1,206.41	1,206.41
	Foundation.	4 in. Hydr. Cement Concrete. 1,206.41 8.427.00	
Thick-	Pave-ness. ment. Inches.	•	
Former	Pave- ment.	None	
	To.	Wabash Ave	•
	From.	Lexington Ave Garfield Ave Wabash Ave None.	
	Street.	Lexington Ave	

		Former	397825			pproxima	Approximate Estimate.	
	é '	Pave- ment.	Pave-between ment. Brick.	Foundation.	Lineal Feet.	Square Yards.	Cost per Square Yard.	Total Cost.
_ ă	Ninth St Washington St Pennsylvania Ave None.	None.	Sand.	Sand. 6 in. concrete, 2 in. sand	. 254.00	667.20	1.12	\$ 947.42
vc Je	Ninth St Pennsylvania Ave Jefferson St	None.	Sand.	Sand. 6 in. concrete, 2 in. sand	. 256.00	. 678.00	1.42	962.76
<u>ة</u> :	Seventh St Broadway Pennsylvania Ave.	None.	Sand.	Sand. 6 in. concrete, 2 in. sand		712.20 2,796.50	1.39	8, 947, 15
					1,221,20	0.221.20 4.141 70		5,797.33

STREET PAVING UNDER CONTRACT AT CLOSE OF FISCAL YEAR ENDING APRIL 15. 1895—Continued.

MACADAM.

Street. From. To, Pave. ment. To, Pave. Specifications. Lineal Square Square Cost per Gost. Yards. Square Cost. Independence Ave. Woodland Ave. Walrond Ave Ced. Blk. 3½ in. crushed granite, bonded with 4,434.00 20,328.00 \$1.24 \$2238.84										_
Cost per Square Yard.				Former		<	рргохішаю	e Estimate		
27.24	;	From.	To.	Pave- ment.	Specifications.	Lineal Feet.	Square Yards.	Cost per Square Yard.	Total Cost.	
	nce Ave.	Woodland Ave	Walrond Ave	Ced. Blk.	3½ in crushed granite, bonded with gravel, 10 in limestone	4,434.00	20,328.00		625,228.84	
						4,434.00	20,328.00		635,228.84	

PLANK SIDEWALKS UNDER CONTRACT AT CLOSE OF FISCAL YEAR ENDING APRIL 15, 1895.

	-				
		;; 	Appro	Approximate Estimate.	rimate.
Side. From.		eege	Lineal Feet.	Lineal Price. Feet. Cts.	Cost.
East Scarritt Ave		St. John Ave.	9.89	ŀ	•199.00
South Ord St		Anie St South Ord St Brooklyn Ave 5	130.30	- -	27.36
West Ninetcenth St		225 feet South of Nineteenth St	20.00		1.00
West., Merrill Place	:	Twenty Eighth St 5	293,00		68.47
North Campbell St	:	Harrison St 5	300,00		65.97
East Twenty-Second St	:	192 feet North of Twenty-Second St 5	203		16.11
West Twenty-Eighth St	`:	Twenty-Ninth St	6H2 50		152.50
West Twenty-Ninth St	•	Wandotte St West., Twenty-Nurth St 330 feet South of Twenty-Ninth St 5	220.00		13.50
	-,-		 -		1
			2,509.80	_	\$641.11
_		_		_	

FIRST-CLASS SIDEWALKS UNDER CONTRACT AT CLOSE OF FISCAL YEAR

OI AI CLOSE	1895.
K CONTRA	APRIL 15,
ALNO UNDER	ENDING A

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10
Eighth St Both. Pennsylvania Ave Jefferson St
Prospect Ave West. Independence Ave Ninth St
Washington St West. Ninth St Tenth St

STREET GRADING UNDER CONTRACT AT CLOSE OF FISCAL YEAR ENDING APRIL 15, 1895.

Cubic Yards Earth	Cu	Feet. Cu
Price Cts.	Exca	Exca-
42,284.00 23%		.771.00
- 5		
1	1,110.00 19 5-6	20
200	3,448.50	375.00 1,893.00 10 376.60 3,448.50 29
8	7,378.00	9
22	3,019,00	108 00 2,903 40 300 00 3,019 00
	A 200 A	A COST AD 10 WEEK AD

ALLEY GRADING UNDER CONTRACT AT CLOSE OF FISCAL YEAR ENDING

APRIL 15, 1895.

nate.	Rock.	Excava. Price. Embank- Price. Cubic Price.	153.90 60c. \$106.56	09.69	67.83	75.74	
ate Estin	- fi - fi	k- Price	မွှ	:	: -:	<u>:</u> :	1
Approximate Estimate.	Cubic Yards Barth.	Emban ment.	284.30				
W V	Cubic Y	Price.		32c.	35c.	34c.	
		Excava tion.		698.60 217.20	269.50 193.80	578.00 315.60	
	Lineal Feet.		698.60				
-	ţ.		Seventeenth St	Seventeenth St	Summit St	Twenty-Sev'nth St.	
	From		Alley South of Six- teenth St	Alley South of Six- teenth St	Jefferson St	Twenty-Sixth St	
	Between		Pennsylvania Ave. and Washing. Alley South of Six-ton Str	Jefferson St. and Summit St Alley South of Six-	Immediately So. of Sixteenth St Jefferson St Summit St	Troost Ave. and Forest Ave Twenty-Sixth St Twenty-Sev'nth St.	

DISTRICT SEWERS UNDER CONTRACT AT CLOSE OF FISCAL YEAR ENDING APRIL 15, 1895.

		Amount.		\$567.86
		Lineal Feet.		1,428.00
	Rock Excavation	per Yard.	Price Sidu	\$2 .50
	Rock E	bic ds.	Cul	8
	Manholes.	esch.	Price,	620.00
mate.	Man	.Təd.	muN	•
Approximate Estimate.			Price Average Lineal Price Average per Ft. Depth. Feet. per Ft. Depth.	5 ft.
Approx		10-inch.	Price per Ft.	750
	Pipe Sewer.		Lineal Feet.	9
	Pipe		Average Depth.	13 ft.
		8-inch.	Price per Ft.	13c
			Price Lineal per Ft. Feet.	, ž
	Basin	Connections. 12-inch Pipe.		
	Catch		Lineal Feet.	
_		Ordinance Number.		6, 177
		District Number.		43

STREET CLEANING CONTRACTS IN FORCE AT CLOSE OF QUARTER ENDING APRIL 15, 1895.

		Amount.	280.10 257.40 1,661.40 1,244.10	
	Lineal	of Street.	2,532.00 8,349.00 6,318.00 5,965.00 2,566.00	22,003.00
	Lineal	Property	4,015.00 5,897.16 10,830.20 10,134.16 4,569.29	37,265.44
Approximate Estimate.	Cost	Clean- ing.	5.90 14.80 15.95 5.80	8.
Esti	181	oT miT	85 73 89 89	8
nate	s bat	Time		- '
roxit	Time.	eyad		
App	Ţ	.eoM		•
	Dates.	To.	Nov. 30, 1895. Nov. 30, 1895. Nov. 30, 1895. Nov. 30, 1895. Nov. 30, 1895.	Nov. 80, 1895.
	Da	From.	Mar. 1, 1895. Mar. 1, 1895. Mar. 1, 1895. Mar. 1, 1895.	1
	To		Sixteenth St Woodland Ave Woodland Ave Prospect Ave	Ninth St
	From.		f ocust St. Eighth St. Main St. Walnut St. Woodland Ave.	Independence Ave.
	Street.		Ninth St. Cocust St. Forest Ave. Pennsylvania Ave. Eighth St. Stateenth St. Woodland Ave. Eighteenth St. Woodland Ave. Woodland Ave. Ninth St. Woodland Ave.	woodland Ave

STREET SPRINKLING CONTRACTS IN FORCE AT CLOSE OF FISCAL YEAR ENDING APRIL 15, 1895.

		Amount.	\$ 291.06	798.71	344.19	400.87	1.534.32	230.40	1.010.07	409.86	212.10	10.40	595.73	141.81	68,998.16
	Cost per Month	per Lin. Ft. St.	36	24°C	25°C	2 3-50	3 19-20c	2%c	2 % c	ပ္ထ	3	20 %	23,0	24,0	!
	Lineal	of Street.	1,087.00	3,207.00	1,019.00	1,711.00	1,375.50	931.00	3,870.00	1,518.00	886.00	3.5	2, 407, 00	573.00	33,708.00
Approximate Bstimate.	Lineal	of Property	1,990.90	5.600.21	1.970.00	2,740.78	2, 198, 63	1,763.91	7,449,40	2,479.63	1,506,00	86.93	4.570.00	1,083.20	.59,418.98 33,708.00
late Be	168) 8y.	Tim Det [- -	•	• •	4		•	• •	•	→ ·	•	• •	4	
proxim	Tine.	Mos.	•			a	. a	•		•	•	> 0		•	
d y		To.	Nov. 30, 1895	Nov. 30, 1895	Nov. 30, 1895	Nov. 30, 1895	Nov. 30, 1895 Nov. 30, 1895	Nov. 30, 1895	Nov. 30, 1895	Nov. 30, 1495	Nov. 30, 1895	Nov. 30, 1895	Nov. 30, 1895		
-	Dates	From.	Mar. 1, 1895	Mar. 1, 1895	ي د		Mar. 1, 1895	Mar. 1, 1895	Mar. 1, 1895		Ξ.	Mar. 1, 1895	: :	-	
	To.		St. Louis Ave	Sixteenth St.	Liberty St	Woodland Ave	Prospect Ave	Eighteenth St	Eastern City Limits				Seventeenth St.	St. Louis Ave	
	From.		Fifth St.	Ninth St.	Santa Fe St	Virginia Ave	Undependence Ave.	•••	Prospect Ave	Eighth St	Liberty St	Fourteenth St.	Twelfth St.	Ninth St	
	Street		Bluff St.	Campbell St.	Eleventh St	Fourteenth St	Fifteenth St.	Harrison St	Ninth St.	Santa Fe St	Sixteenth St.	Virginia Ave	Wyoming St.	Wyoming St	; ; !

STREET CLEANING AND SPRINKLING CONTRACTS IN FORCE AT CLOSE OF FISCAL YEAR ENDING APRIL 15, 1895.

il I		Amount.	8 285.83	816.00	1,268.83	6,721.70 8,724.00 61,859.65
1		Feet of Street.	200.00	647.00	4,668.70 2,577.00	8,724.00
1	Lineal	Feet of Prop- erty.	960.00	1,193.00	4,668.70	6,721.70
		Cost Clean- ing.	93.00	2.00	7.70	
timate	Cleaning.	Total Total	2 2	82	18	
ate Es		Times per .	64	*	64	
Approximate Estimate.	ing.	Cost per Lin. Ft. Street per Mo.	2%c	3%c	275.c	
	Sprinkling.	Times pet Day.	7	4	-	
	S	Time, Months.	6	•	•	
	es.	To.	Nov. 30, 1895	Nov. 50, 1895	Nov. 30, 1895	
	Dates.	From.	Mar. 1, 1895	Mar. 1, 1895	Mar. 1, 1895	1
		ė	Fourth St Mar. 1, 1895 Nov. 30, 1895	Seventh St	K. C. Belt Ry	
		From.	Delaware St Second St	Grand Ave Independence Ave. Seventh St Mar. 1, 1895 Nov. 50, 1895	Walnut St Sixteenth St K. C. Belt Ry Mar. 1, 1895 Nov. 30, 1895	
		Street	Delaware St	Grand Ave	Walnut St	

CONDEMNATION CASES COMPLETED DURING FISCAL YEAR ENDING

APRIL 15, 1895.

	Nemaiks.	11,739,00 11,739,20 5,600,00 3,999,00 18,632,79 739,00 1,999,00 Repealed. 2,174,00 Pamages Ex- ceed Benefits.
Benefits.	Kansas Property City. Owners.	8 16,320.00 14,6739.26 14,6739.26 5,660.00 3,990.00 13,990.00 1,990.00
) A	Kansas	8 1 4 1 - 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Verdice	Rendered.	July 13, 98 Apr. 6, 94 Sept. 8, 98 June 25, 93 Out. 25, 93 Apr. 10, 94 Sept. 10, 94 June 13, 94 Apr. 20, 98
ě		Locust St Euclid Ave Vine St Vine St Niath St Twenty-Sixth St Righteenth St North line of Olive Place W, line of Prospect Ave
-	TION.	B. line of C.F. Quest's Add. Flora Ave. South Winfeld Place Independence Ave. Twenty-Fifth St. S. line of Alexander Place Fifteenth St. E. line of Downing's Res. Grand Ave.
Ordinance.	No. Date Date Approved.	4.873 Feb 16. 98 Fourteenth St. Eline of C.P. Quest's Add Euclid Ave Sept. 8, 98 1.00 141,739.26 1.00 141,739.26 4.84 1.00 141,739.26 4.84 1.00 141,739.26 4.84 1.00 141,739.26 4.84 1.00 141,739.26 4.84 1.00 141,739.26 4.84 1.00 141,739.26 4.84 1.00 141,739.26 4.84 1.00 141,739.26 1.00 141,739.27 141,739.27 141,739.27 141,739.27 141,739.27 141,739.27 141,739.27 141,739.27 141,739.27 141,739.27 141,739.27 141,739.27 141,739.27 1

CONDEMNATION CASES PENDING AT END OF FISCAL YEAR ENDING

APRIL 15, 1895.

		# 7.063.09 Collecting. 4.862.10 Pending. 959.00 Collecting. 1.749.00 Pending. 1.749.00 Pending. Pending. Pending. Pending. Pending. Pending. Pending.
Benefits.	ã Ó	9 7.068.00 16 N55.00 4.862.10 959.00 1,749.00
Ø.	Kansas City.	88888
Verdice	Kendered.	Nov. 27, 98 Doc. 28, 94, Peb. 9, 95 Apr. 12, 95
É	2	Southwest Boulevard Agnes Ave Wast line Grand Ave Wabash Ave Olive St. Pifteenth St. Askew Ave Fifteenth St. Bolly St. Holly St.
75		Holly St. Yearly-Fourth St. South Winfield Place Olive St. Line Matthews and Hill's Addition S. line of Carlton Place. Bellefontaine Ave. St. line of Bernard Place St. John's Ave. Liberty St. Liberty St.
90		5.265 June 8. '98 Twenty-Fifth St. Holly St. Southwest Boulevard. Nov 27, '98 91.00 6 7.083.09 Collecting. 5.93 June 8. '98 Twenty-Fifth St. Twenty-Fourth St. West line Grand Ave. Dec. 28, '94 1.00 16 #85.00 Collecting. 5.93 Aug. 28. '94 Eleventh St. South Winfield Place Agnes Ave. Agnes Ave. 100 16 #85.10 Collecting. 6.075 Nov. 14, '94 Minnie St. Eline Matthews and Hill's Wabsh Ave. Perform. Perform. Pending. 6.077 Nov. 14, '94 Minnie St. S. line of Carlton Place. Pitteenth St. Askew Ave. Apr. 12, '95 1.00 1,749.00 Pending. 6.214 Mar. 6, '95 Alley No of Fitteenth St. Belifeonaine Ave. Sine of Bernard Place. Pitteenth St. Pending. 6.229 Mar. 16, '95 Alley No of Ave. Sine of Bernard Place. Fitteenth St. Pending. Pending. 6.229 Apr. 18, '95
Ordinance.	No. Date Approved.	June Oct. Sept. Nov. I Mar. Mar. Apr. I
S	X o	6,222 WWW A S S S S S S S S S S S S S S S S S

GRADING CASES PENDING AT CLOSE OF FISCAL YEAR ENDING APRIL 15, 1895.

						Verdice		Denents.	
No. Api	Date Approved.		Street,	From	0	Rendered. Kansas	Kansas City.	Property Owners.	Remarks.
6474 Nov. 6147 Jan. 6192 Feb.		S Ord St. Twenty-fifti	Ord St. Twenty fifth St.	Elma St. Woodhand Ave. Fourteenth St.	Lexington Ave Oct. 27, 1894 Pending. Prospect Ave Pending. Pifteenth St.	Oct. 27, 1894.			Pending. Pending. Pending.
SOUT CAR	6, 1895.	and Mer	Age C. 1835. Alley between refrace Ave.	Twenty-ninth St	Thirtieth St		:	:	Pending.
No.	MA Nov 21 1891	Pl. and I	Fl. and Balleview Ave.	Twenty-ninth St	Thirtieth St.		:	:	Not filed.
Š	6045 Nov. 21, 1494	1	and Peery Ave	Walrond Ave	Indiana Ave. ,		:		Pending.
M ay	5234 May 26, 1493.		and Pennsylvania Ave.	Twenty-sixth St.	Twenty-seventh St. Jefferson St Apr. 16, 1894, 650.00	Apr. 16, 1894.	650.00	01,550.00	Pending. New trial ordered.
, ,	26. 133		and Olive St	Pendleton Ave	St. John Ave Feb. 2, 1895.	Feb. 2, 1895.	1.00	512.25	Collecting.
ke k	2445 May 31, 1493.	and Mrtiee St	and Mrtiee St	Thirteenth St	Fourteenth St.			Not bled	Not bled.
une	15, 149	West Pr			Thirtieth St.				Thirtieth St. Ord to repeal not filed.
, e	5473 Nov. 6, 1491.		Twentieth St.	Grand Ave.	Holmes St Not thed.				Not hied.
Þ.	57.30 Apr. 12, 1894			Attrie St.	Lexington Ave. Dec. 8, 1894.	Dec. 8, 1894.	8.	199 00	Collecting.
Dec.	6113 Dec. 12, 1494. 6145 Jan. 16, 1495		Alloy between Charry St. and Holmes St. Mercier Pl.	Twelfth St. Northerly line of Lot 28,	Thirteenth St.	 : : : :			Ordinance to Repeal
9	16, 1495	6146 Jan. 16, 1495 highteenth Sc	St	Bilk, 2, Res. of Whip- ple's 3d Add, prod Northerly line of Lot 26 Rite 2, Res. of White	Cliff St			:	Not filed; grade to be changed.
6193 Feb	1.2	28, 1895 College Ave.	5193 Feb 28, 1595 College Ave.	ples 2 d Add. prod.	Holly St. Twenty-sixth St.	Not filed Pending Pending			Not filed. Pending. Pending.
N PL	634 Mar. 6, 1495		Alley immediately south of		belt tox				Not filed
ž :		-	Alley between Holly St. and West Prospect Pl	Iwonty seventh St.	Twenty-eighth St				Not filed.
523 Mar. 523 Mar. 523 Mar.			26	Fwenty-third St. Sixth St. Charlotte St. Walrond Ave.	Ninth St. Campbell St. Indiana Ave. Not fled			Not bled	Not filed. Not filed. Not filed.

Ord	Ordinance.			1	Verdice	Be	Benefits,		
Ö	Approved.	Street.	From	٥	Rendered.	Kansas City.	Property Owners.	χ Σ	Remarks.
517 023 472 224	Dec. 6, '93 Apr. 13, '93 Nov. 6, '93 May 26, '93	Alley N. of 14th St. Alley bet. Flora Ave and Grove St. Twenty First St. Alley S. of Tenth St.	Virginia Ave Howard Ave Southwest Boulevard Michigan Ave	5.517 Dec. 6, 93 Alley N. of 14th St. Virginia Ave. Lydia Ave. Nov. 10, 94 Complete. 5,023 Apr. 13, 93 Alley Bot. Flora Ave. Howard Ave. Twenty-Fourth St. Dismisses 5,472 Nov. 6, 93 Twenty First St. Southwest Boulevard. West Prospect Place. July 28, 94 Complete. 5,224 May 26, 93 Alley S. of Tenth St. Michigan Ave. Euclid Ave. 94 Complete.	Nov. 10, '94 Nov. 17, '94 July 28, '94 Mar. 8, '94			Complete. J Dismissed. Day exceed benefits. Complete. Complete.	l. Damages enefits.
5,528 5,450 5,476 5,591	Dec.26, 93 Oct. 12, 93 Nov. 6, 93 Feb. 8, 94	and Jefferson St Alley S of Sixteenth St Campbell St Monroe Ave Alley bet. Park Ave. and	Summit St. Sixreenth St. Windsor Ave	Dec.26, 93 Alley Det. Summit St. Alley S. of 16th St. Seventeenth St. Nov. 27, 74 Complete. Oct. 12, 93 Alley S of Sixteenth St. Summit St. Jefferson St. June 30, 94 No claims. Nov. 6, 95 Campbell St. Sixteenth St. Sixteenth St. Nov. 8, 94 Complete. Complete. Feb. 8, 94 Monroe Ave. Windsor Ave. Scarritt Ave. Nov. 8, 94 No claims Panelad	Nov. 27, 74 June 30, 94 Nov. 8, 94 Nov. 3, 94		Complete. No claims Complete. No claims	Complete. No claims. Complete. No claims.	Complete.
5,593	Heb. 8, '94) Mar. 9, '94 Mar. 9, '94	Olive St. Alley bet. Main St. and Walnut St. McGee St. Twenty-First St.	Alley immediately So. of Thirtieth St. Eleventh St. Charlotte St.	5,589 Feb. 8, 94) Alley bet. Main St. and Alley inimediately So. (Thirtty-First St. S. 194 McGee St. Eleventh St. Twelfth St. Nov. 10, 94 Complete. S. 194 McGee St. Charlotte St. Charl	Nov. 10, '94		Dismissed Complete. Dismissed	Dismissed. Complete. Dismissed.	
8:38	Mar 24, '94	5.678 Mar 24, 94 Alley immediately S. Washington St	Washington St	Addition and South along Broadway Ad- dition to North line of		:		. Dec.15, '94 Repealed, Ord. 6,048.	ord. 6,048.
77.5	Apr. 14, '94	5,772 Apr. 14, '94 12th St. and 13th St. Virginia Ave. Lydia Ave. Oct. 27, '94 Complete.	Virginia Ave	Lydia Ave	j Oct. 27, '94		:	Complete.	

GRADING CASES COMPLETED DURING FISCAL YEAR ENDING APRIL 15, 1895,

CONTINUED.

11	lete.	mages	lete.	lete. lete.	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Remarks.	Complete.	. Da	Complete.	Complete.	Complete. Complete. Complete. Complete. Complete.
	No claims.	Complete. Dismissed. Damages exceed benefits.	No claims.		
Benefits. Kansas Property City. Owners.				8, '95'	
Be Kansas City.					
Verdict Rendered.	Nov. 8, 94	Mar. 26, 95 Dec. 8, 94	Dec. 15, '94 .	Apr. 8, 95f. Feb. 14, 95	Mar. 9, 95 Jan. 14, 95 Jan. 14, 95 Mar. 26, 95 Mar. 23, 95
	Thirty-First St. Nov. 8, 94 No claims. Twelfth St. Jan. 14, 95 No claims.	Twenty-Fourth St. Mar. Indiana Ave. Dec. West line of Broadway	Addition and South along Broadway Ad- Dec. 15, 94	Summit St. Apr. 8, 95! Twenty-Seventh St. Feb. 14, 93	Vyandotte St. Vyandotte St. Palimore Ave ennsylvania Ave Washington St. Alley S. of 18th St. Seventeenth St. Dive St. Prospect Ave
From	Twenty-Ninth St Thirty-First S Bieventh St Twelfth St	Twenty-Third St	Washington St	Belleview Ave	Eighteenth St. St. Wyandotte St. Pennsylvania Ave. Twenty-Sixth St. ma. Ave. Alley S. of 16th St.
Ordinance. Street.	Aug. 11. 94 Forest Ave. T. Sep. 7, 94.) Alley bet Jefferson St. 1 Sep. 7, 94.) And Penna. Ave	Sep. 13, 94, Jolley Det. Trac. Ave. Twenty-Third St Twenty-Fourth St Mar. 36, 95	6,048 Oct. 25, 94 (of Thirteenth St.) Washington St.	Nov. 14, 94 Twenty-Ninth St. Belleview Ave	Nov. 6, 93 Harrison St. Nov. 2', 94 Twenty-Sixth St. Nov. 3'', 94 Twenty-Sixth St. Nov. 3'', 94 Marien Lane Pennsylvania Ave. Dec. 13', 94 Oak St. Oct. 5, 94, Alley bet. Penna. Ave. Alley S. of 16th St Seventeenth St. Jan. 14, 95 Mar. 26, 95 Mar. 26, 95 No claims. No claims. No claims. No claims. Oct. 5, 94, Alley bet. Penna. Ave. Alley S. of 16th St Seventeenth St. Jan. 16, 95 Twentieth St. No claims.
Ordin	5, 920 8, 939 8, 939	. 258.0 2. 258.0 3. 3. 2.	-0 -0	N 150.9 N 560.9	N. V.

RECAPITULATION OF PUBLIC WORK COMPLETED DURING FISCAL YEAR **ENDING APRIL 15, 1895.**

64-68 Paving Streets 69 Paving Alleys 72 Curbing 73 First-Class Sidewalks 74 Plank Sidewalks 75 Street Grading 76 District Sewers 82 Repairs First-Class 82 Repairs First-Class 83 Repairs Second-	64-68 Paving Streets 69 Paving Alleys. 72 Curbing 73 Free-Class Sidewalks 74 Plank Sidewalks.	8 2 2 1		Square Yards	Con- Cubic Yards. Square Yards Lineal Feet.	Miles.	Bills.	Amount.
FUFFIX COFEER	dewalks Ks.			195, 980, 46	49.588.35	68.6	2.170	\$403.024.20
DEFICA DESE	dewalks ks.	2 =		2,391.40	1,557.60	. 295	7.	8,046.87
FFRADFRE	dewalks ks.	=			25,382,50	4.807	278	11,458 33
TRKOTKKE	ks			_	18,565.38	3.51	78	20,987.2
N. KOTKKD		53	:	•	13,521.50	2.56	231	8,528.1
< □□ □ ≅ ≅ □	Street Grading	=			_	1.61	77.1	11,006.3
OFKED		•	8.831.30			7.	250	1.856.1
0-XX0	District Sewers	-			_	6.97	1,487	81,834.4
222		-			_	2.675		4,999 9
20	epairs First-Class Sidewalks				:	-	11.7	898.2
-	tepairs Second-Class Sidewalks.	-					-	6,743.0
	hithorized by Ordinance	80						1,618.4
-	Public Work Paid for by Voucher	11						1.970.2
-	Jeaning and Sprinkling Streets	21			87, 262, 50	2.08	3.380	14.988.6
87-88 Sprinkling Stre	Sprinkling Streets				101,258.50	19.18	8.331	17.818.3
	Paning Streets	6			54, 585, 00	10.84	4.656	11.900
-		:						
							£0.	6507 ART AB

RECAPITULATION OF PUBLIC WORK UNDER CONTRACT AT CLOSE OF FISCAL YEAR ENDING APRIL 15, 1895.

No. of Approximate Estimate No. of Approximate Estimate No. of Con- Itacts Cubic Yards Square Yards Lineal Feet. Miles, Con- Itacts Miles, Miles		Amount.	641.11 641.11 1.783 04 16.880 79 31.963 567.36 8.724.50 8.724.50 8.785.65	674,287.91
No. of Con- tracts. Cubic Yards. Square Yards. 8 69 947 30 4 1,164.80	di di	Miles.	1. 47 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	<u> </u>
No. of Con- tracts. Cubic Yards. Square Yards. 8 69 947 30 4 1,164.80	oximate Estimat	Lineal Feet.		!
N.O.O.C.O.O.O.C.O.O.C.O.O.O.C.O.O.O.C.O.O.O.C.O.O.O.C.O.O.O.O.C.O	Appr	Square Yards.	21,894.70	
No. OC. Coo. of tracts.	, ,	Cubic Yards.	69.947.30	
Paving Streets Paving Streets Plank Sidewalks First Class Sidewalks Street Grading District Sewers Street Cleaning Street Cleaning and Sprinkling.	No. of	tracts.	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	No.	National Work.	awing Streets Plank Sidewalks First-Class Sidewalks First Cading Altey Grading Sister Cleaning Street Cleaning Street Cleaning Street Cleaning and Sprinkling	

STATEMENT OF EXPENDITURES OF ENGINEERING DEPARTMENT DURING FISCAL YEAR ENDING APRIL 15, 1895.

PAY ROLL—			
Engineering Department, Salaries. Engineering Department, Horse Hire 1,241.48 Steam Road Roller 1,064.22	0,072.88 1,241.48 1,064.22 842,378.58	8.58	
MISCELLANEOUS EXPENSE—			
Abstracts, Condemnations. 123 Abstracts, Grading. 524 Abstracts, General Information 52	524.69 52.05 701	701.99	
Blue Prints		51.74	
SUNDRY MISCELLANEOUS EXPENSE— Rent of Ground for Storing Material for Union Avenue.	45.50		
	32.75 9.80 1.80		
	8.25	87 60	16 727 878

Respectfully submitted, H. H. FILLEY,

SIXTH ANNUAL REPORT

DEPARTMENT OF STREETS.

KANSAS CITY, MISSOURI,

—то тик—

BOARD OF PUBLIC WORKS.

FISCAL YEAR ENDING APRIL 15, 1895.

THOS. A. DODDS, Superintendent.

J. W. HUMPHREY, Chief Clerk.



DEPARTMENT OF STREETS.

KANSAS CITY, Mo., April 15, 1895.

To the Honorable Board of Public Works,

Kansas City, Mo.:

GENTLEMEN:—I have the honor to submit herewith my report of the operations of the Street Department for the fiscal year ending April 15, 1895:

In assuming charge of the Street Department I determined to equalize, as much as possible, the expenditures of all monies allowed this department for the good of the whole city. That some sections had been neglected (notably the wholesale section in the West Bottoms) was evident. This was given immediate attention by a general cleaning, and later on repairs were made on many of the streets.

Wyoming street, between Twelfth and Seventeenth, was paved with bank gravel in 1892, at an expense of \$4,000.00. This pavement was a failure, it being subject to heavy traffic and having but a slight grade. In June, 1894, the street was repaired with macadam at an expense of \$600.00, and at the present time is badly in need of further repairs. I would recommend that it be paved with granite blocks, as no other pavement will stand the traffic to which the street is subjected

Allen avenue, one of the connecting links between the wholesale and retail sections of the city, was repaired at an expense of \$389.00, and from an impassable condition was made so that it has had continuous travel since.

The repairing of Lincoln street has greatly relieved Bluff street and the Fourth street viaduct. The cost of repairs on this street, from Twelfth to Bluff, was \$386.00. The street is now in splendid condition, and will need very little attention this season.

Holly street, from Twelfth to Seventeenth, is now impassable. I would recommend it be improved. The work could be done at small expense, as all the material necessary to make a good roadway is to be found on the side of the hill along the street. The improving of this street would give another outlet to the West Bottoms, which is badly needed.

Bluff street, from Fifth to its intersection with St. Louis avenue, was found to be in bad condition, the surface having become uneven. The stone blocks were taken up and relaid, making a good wearing surface that will last for a number of years. In this work of construction there was 4,577 square yards of stone pavement laid, the cost of which was \$937.62, or about 20½ cents per square yard. The lowest estimate made for this work was \$1,500.00.

Baltimore avenue, between Fourteenth and Sixteenth, Twenty-Sixth, between Grand avenue and Locust street, and Holmes street, between First and Third and Sixth and Eighth, were all in an almost impassable condition. Repairs were made with macadam, thoroughly rolled, at a very slight expense, and these streets are now in good condition.

A notable feature in repair work on the streets the past season has been the use of the grader. A large number of dirt streets in all parts of the city have been resurfaced, washouts filled, and the streets placed in good condition.

The construction and repair of street crossings has been pushed, and if there is any portion of the city not supplied it is because request for same has not been made to this department. All work has been done with oak lumber. The carpenter force consists of two gangs of men; one carpenter, four laborers and one team to each gang. I feel very much gratified at the good work done by this force. During the past season they have constructed 884 crossings, repaired 865 old crossings, and, with the addition of the work done on bridges and viaducts, have used during the past season 478,609 feet of new and old lumber. In no month during the year have they made full time, the average being eighteen days.

The Fourth street viaduct was refloored at an expense of \$554.55. The James street viaduct has also been refloored and repaired at an expense of \$664.50. The iron work on these two structures should be painted at once, which will put them in first-class condition.

The keeping in repair of bridges throughout the city is no small item of expense, and it has been the aim of the department (whenever possible) to fill in and remove the same. ing the past year three bridges over old O. K. creek have been removed and the channel filled, viz.: The one on Nineteenth street, between Charlotte street and Campbell street; one on Locust street, between Twentieth and Twenty-first streets, and on Charlotte street between Nineteenth and Twentieth streets. The fill is almost made at the Holmes street bridge, between Nineteenth and Twentieth streets, and will be completed as soon as the cable railway is ready to put in their conduits. The bridge on Troost avenue, between Seventeenth and Eighteenth streets, will also be removed and the fill made as soon as the cable company can unite with this department in the work. All of the bridges mentioned were in bad condition, and if they had not been removed general repairs, at considerable expense, would have been necessary. The fills were mostly made with dirt taken from the streets by the cleaning gangs. tractors were induced by this department to dump dirt, they were removing, at these points, completing the work and saving this expense to the city.

Examination of the Main street sewer, from the Market House to the river, showed the necessity of immediate repair, and the same was ordered done by your Honorable Body. Continuous repairs were made between these points, a distance of The work consisted in concreting the floor, and then 1,781 feet. paving it with brick. In this work there were 890 square yards, requiring 60,000 brick. 140 feet of side walls of sewer were lined with brick and 156 feet arched. All of this work was done with the best of material and by experienced sewer men, and the entire cost was \$4,035.76, or about \$2.50 per running That portion of the sewer between the Market House and Ninth street is in bad condition, and I would recommend that the repairs be continued to Ninth street at as early a date With the same class of work done on this section the sewer will last for many years.

The public fountains have received careful attention. Owing to the continued drouth during the winter and spring, special efforts were made to keep them in continuous running order. A competent plumber has had charge of this branch of the department, and, for the first time since the fountains have been placed on the streets, they have been kept in condition for continuous service. Hundreds of families have depended on them for water.

In the cleaning of streets it has been our aim to devote to each street that portion of expense that the travel on such street justified. A record has been kept of all work, in order that this might be done. Our work has been handicapped through lack of appliances with which to work. With only three sweeping machines, and these almost worn out, with no allowance for sprinkling before sweeping, we have been placed in a position to be criticised. In addition to the sweeping machines, from

five to seven gangs of men, with hand appliances, have been employed, representing a force of from fifty to seventy men. Another feature of the cleaning work, has been the care of the block bounded by Eleventh, Twelfth, Main and Walnut. has been done by one man, with a small hand cart and hand appliances. The results obtained from this work have been so satisfactory, that I believe the system should be used in all the business sections of the city, as an aid or adjunct to the regular street cleaning force, as by such means the streets can be cleaned, and kept clean, during business hours, when street sweeping machines cannot be used. With three or four new and improved sweeping machines, a sufficient number of handcarts, and with sprinkling wagons to sprinkle in advance of the sweepers, I feel that I could give the city clean streets. record was kept of the amount of dirt taken from the streets until January 1st last. From that date until the close of the fiscal year (April 15th), there was removed 4,927 loads, or 12,317 cubic yards.

The problem of cleaning and sprinkling streets, especially the business streets, paved with asphalt, would be much simplified if the city was in a position to furnish free water for flushing purposes. The streets could be flushed three times a week (the work being done at night), and with the work of hand carts before mentioned, to clean up all accumulations of dirt and droppings during business hours, the sprinkling and cleaning of the streets by the city or by contract could be dispensed with, and 1 am of the opinion that the work done would be much more satisfactory than the present system, and that the expense of doing the work would be considerably less.

An examination of the tabulated report will show in detail how every dollar given this department has been expended. Every street in Kansas City upon which work has been done is mentioned, giving the total cost of the work done, and also showing the character of the work. The total footings will also show the amounts expended in cleaning, repairs on streets, sewer maintenance, sidewalks, cross-walks, bridges, etc.' The cost of all contracted cleaning and sprinkling for the past year is given, and a comparative statement of cost of cleaning by the city and by contractors. It also shows that this department has issued 2,080 permits for various excavating purposes.

TOM. A. DODDS,

Superintendent of Streets.

SUMMARY.

Pay roll from April 16 to 30, 1894	2,604.12	
Accounts paid April 16 to 30, 1894	673.80	8 3,277.92
Pay roll for month of May, 1894	5,347.78	
Accounts paid month of May, 1894	608.56	5,956.34
Pay roll for month of June, 1894	5,410.91	
Accounts paid month of June, 1894	1,445.59	6,856.50
Pay roll for month of July, 1894	7,033.79	
Accounts paid month of July, 1894	1,366.16	8,399.95
Pay roll for month of August, 1894	5,409.74	
Accounts paid month of August, 1894	1,754.42	7,164.16
Pay roll for month of September, 1894	5,218.87	
Accounts paid month of September, 1894	800.44	6,079.31
Pay roll for month of October, 1894	5,138.32	
Accounts paid month of October, 1894	1,229.13	6,367.45
Pay roll for month of November, 1894	4,501.88	
Accounts paid month of November, 1894	1,024.92	5,526.80
Pay roll for month of December 1894	4,585.17	
Accounts paid month of December, 1894	797.30	5,382.47
Pay roll for month of January, 1895	4,029.88	
Accounts paid month of January, 1895	1,183.48	5,213.36
Pay roll for month of February, 1895	4,488.40	
Accounts paid month of February, 1895	1,641.35	6,129.75
Pay roll for month of March, 1895	5,464.08	
Accounts paid month of March, 1895	2,283.97	7,748.05
Pay roll for month of April, 1 to 16, 1895	3,727.18	
Accounts paid month of April, 1 to 16, 1895	1,389.91	5,117.09
Total expense from April 16, 1894, to April 16,	1895	\$ 79,219,15
Estimated value of material on hand April 16,		
Total		.\$81,285.65

DISTRIBUTION OF PAY ROLL.

Total.	5,847.78 5,817.78 5,410.91 5,400.74 5,108.77 5,218.87 4,585.17 4,485.10 4,485.10 5,446.08 5,446.08		962,960.12
Laborers.	2,445.80 2,445.80 2,638.93 8,518.98 2,812.76 2,812.76 2,390.63 2,392.46 2,3	631,954.06	
Teams.	677 66 1,673 70 1,673 70 1,674 38 1,886 61 1,198 44 1,198 44 1,210 48 1,210 48 1,210 48 1,405 50 1,405 50	16,958.18	
Masons.	20.00 100.00 11.00 10.00	1 ,352.00	
Pavers.	68.10 126.18 126.18 128.18 211.14 211.14 211.14 88.85 88.38 88.39 88.31 58.09 120.65	\$1.304.24	
Poremen. Carpenters	83.73.79.76.74.96.74.96.74.96.74.96.74.97.74.76.76.74.77.77.77.77.77.77.77.77.77.77.77.77.	81,844.65	
	4 112 122 123 124 125 125 125 125 125 125 125 125 125 125	68,585.71	
Inspectors.	11.64 149.00 150.00 150.00 150.00 150.00 17.50 20.30 20.30 20.00 20 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.0	\$2,629.30	Total Pay Roll from April 16, '94, to April 16, '95
Clerks.	84,98 1171,00 1171,00 1180,00 1180,00 1180,00 1180,00 1180,00 1180,00	\$1,936.98	n April 16, '9
Superin- tendent.	10-146 165, 66 166, 66	\$2,000.00	ay Roll fror
Months of 1894-5.	April, 16th to 30th, 94 May, June, June, July, August, September, October, November, Jenuary, February, March, April, 1st to 16th,	Totals	Total F

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Total.	868 0 9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	939.49	
Sundries.	288	19.45	-
K. C. Improved St. Sprinkling CoContract.		6360.00 6360.00	1
Rent of Lot, 11th and Troos (City Yards).	00:099	9860 (00) 9366	1
Rent of Telephone.	8 8 8 8	8.22	
Repairing TooT	2 # # # # # # # # # # # # # # # # # # #	206.30	
New Tools.	2	6590.97	
о ээлгенансе о Ногъез	######################################	39.30 6924 10 April 16, 1893	
Salaries of a sectors.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	150 00 63,048 92 - 16, 1891, to	
Salaties of Superintendent and Clerks.	# 2		
Months of 1494-5.	April, 16 to 30, 1894 May, 1994 Une, 1984 Magust, 1894 Angust, 1894 Cortober, 1894 Angust, 1894 Angust, 1894 Angust, 1894 Angust, 1894 Angust, 1895 Angust, 1895	April, 1 to 16, 1495	



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					Total	
·	F.	Material.	Labor.	Material.	Labor.	Expense
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	Alles		*********	3.63	1.69	412.48
	Amid			0.90	1.00	5.83
	And	**********			W. F. S. 133	13.1
• •	Aske					79.00
	Balt	.94	.84			52.7
•	Bank		****** ****	1.58	1.57	645.06
	Bell	****	occuro.	·····	**********	1.6
	Bellerin	**********	A 64.5 ****	***** ***	*******	327.6
	Bellevin	4.26	13.63	*********		166.2
	Bein			.08	.93	320.4
	Belgin	******* ***	process one		**********	12.6
	Bline	4 44	A	********	******	24.6
	Bros	1.00	6.25	.05		1,129.7
	WEDG		0000000		.84	2 6
	Brod	1.99	11.36	**********	.66	519.0
	Brot		11.50		100	12.2
	Cam	1		****	11.00.00.00.00.00	365.3
	Cent		131311111		110000000000000000000000000000000000000	218.9
	Ches		6.00	large ver	************	778.5
	Ches					476.4
	Clevi	5.15	12.14		255.64	665.1
	Colle	.15	4.70	.14	2.94	29.9
	Cott		Acres 20.53	STREET SHAPE	The street	142.9
	Delarin	1.07	.75		********	15.1
	Dor	*********	SERVERSES 533	***************************************	.60	386 8
	Dung	*********	Journal of		ALCOHOLDS.	2.7
	Dykk			· · · · · · · · · · · · · · · · · · ·	201 1001	21.3
	Eight	.08	84		ANTES STATE	1,215.0
	Birli	.00			100,000,000	192.4
	Eight					669.1

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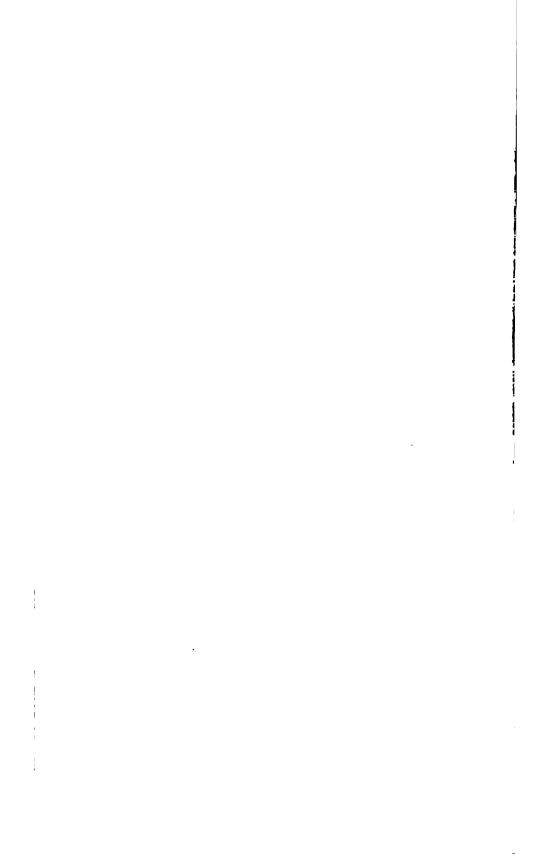
Date.			Brid	dges.	Miscell	laneous.	Total	
<u> </u>	b	or.	Material.	Labor.	Material.	Labor.	Expense	
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••	Flo	85		' • • • • • • • • • • • • • • • • • • •			228.58	
	For		[†] • • • • • • • • • • • • • • • • • • •	· • • • • · · · · · · · · · · · · · ·			662.97	
	For	• • • • •	••••	•••••••			780.57	
	Fou	• • • •	,	! • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	438.6	
•	10.4	01	656.09	258.18	;·····		298.60	
-	Fra	, I	656.09	430.18			1,385.01 8.15	
	Gat						211.4	
	Gat		İ				83.95	
•	Gen		114.47				259.54	
	Gill							
	Gla						23.48	
	Graf	13	2.50			.90	1,984 54	
	Gra						10.16	
•	Gr d	;		· · · · · · · · · · · · · · · · · · ·			10.21	
	Gui	,		· · · · · · · · · · · · · · · · · · ·		` .	137.18	
	Gar		•••••	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •		232 04	
	Hab							
	Hat						247.91	
	Hid						664.05	
	High	45					301 36	
	Ho						93 99	
•	- 1 -	—						
	Tou,	67 i	9790.77	8404.14	620.48	6295,74	821,705 16	

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Date.		Bridges.		Miscell	Total Expense.	
	_	Material.	Labor.	Material.	Labor	Expense
	Total	€790.77	\$404.14	#20.48	1295.74	621,705.1
Ht. 10 April 16, 1895	Hola.		16.70	********		1,104.6
The state of the s	How.	1.70	3.38	2.41	7 62	227.7
	Inder			1.91	5.63	501 7
	India.	.68	.84	********	*** ****	285.7
	leffei.	.65		. 15	5.05	890.2
	Kans	2.00	5.06		************	168.2
	Laug		5.00	*******		9.0
	Lexis				N. N.	. 165.7
	Libet			Vi when were	EVALUE 2	349.2
	Lince					516 1
	Locu	.51		12.52		404.0
	Lydia		******* ****		3.34	246 0
	Machin.	.04	.85	arrenne.	*** ********	648 (
					PEFERMAN	1,034.2
	Maple.		omani in	*********		5.7
	Merca	******	*** *** ****	*******	***********	25.7 1 58.0
	Mich.			**********	*******	179.6
	Milla				3565655	l
	Minn.				1244441	20 6
	Misse				******	581.6
	Misso				148 7414	70.7
	Mont				*********	115 (
				oine nin		3.4
	Morre				************	19.1
	Mulbi.		*********		525519.5	540 4
		*********		**********		4.6
	McGe.	********	******** **	tion in the	*****	187 3 153 3
	Nines.	.80	120.14	.08	77	759 7
	Nines.	.80	120.14	2,45		203 1
	Nimth	210101010	6.0.0			852.5
	V 100 100 100 100 100 100 100 100 100 10		interior.	.48	4.39	574 3
1	Totali	€804.23	0 551.31	\$40.81	#925 10	832,064 0



Date.	٠.	Brie	dges.	Miscell	Total	
	abor.	Material.	Labor.	Material.	Labor.	Expense.
94, to April 16, 1895	55.81	♦804 23	9551.31		0325.10	632.064.00 165.92
••	5		l			60.37
• •	.84	2.83	6.68			595.80
• •	H		••• ••• •••	!		186.75 844.79
::				• • • • • • • • • • • • • • • • • • •		41.51
••	H					16.96
	H	95.47	93.25		· · · · · · · · · · · · · · · · · · ·	415.61
••	H		`			16.60
• •				2.69	3.87	476.29
••	J					22.17 26.22
••	1			· · · · · · · · · · · · · · · · · · ·		64.15
	.					16 42
•	3					255.90
••			<u> </u>			10.01
••	3			·	• • • • • · · · · · · · · · ·	14.69
••	1.60	!	i	.20	6.50	936.96 293.66
••		. 45	7.48	. 20	0.50	467.58
••	3.37	l		.50	6.91	356.92
	1.70	.46	1.69			562.09
• •	14.78					456. H9
				. 13	1.69	610.75
•	1.69	ļ				687.76
••	1.20	21.03	90.33	• • • • • • • • • • • • • • • • • • • •	6.36	56.03 1,360.42
	\$ 1.20	1 21.05	84	1.36	.84	247 55
••	1			.10	.78	205.39
••	3	1.60	3.10			685.38
••	4	1				723.78
••	4 · · · · · · · · · · · · · · · · · · ·					251.45
•	1	2.93	18.82	. 89	8.38	103 47
	3.37					350 62
	1,7.36	s929.80	0775.50	846.68	8354,98	648,048 81

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_	١.	Bridges.		Miscel	Total		
Date.	or.	Material.	Labor.	Material.		Expense.	
	Tol 36	0929.80	e775.50	946 6H	¢334 . 98	\$43,04H.R	
1-94, to April 16, 199	к ты і					41.5	
	The					6H1 Z	
	Th 23				i 	281.1	
	The			,		108 5	
					,	17.6	
	!Tbd · · · · ·			• • • • • • • • • •	`. • • • · · · • • • • · · · ·	128.8	
						42.2	
	Tra		.87		I	480 1	
•	Tre				4 3N	423.2	
	T 🕶 39			.47	9.41	1,161.1 1.065 9	
• •		28	9.43	. • •		595 1	
	T 🖚 · · · · ·					279.4	
* *	17 99	1	30,00			75.5	
• •	1			• • • • • • • • • • • • • • • • • • • •		15 7	
	Two		.84			229.2	
•	Two	24	2.64	.57	8.74	175.0	
	Two					193.9	
•	17.2					292 3	
•	T			2.37	7.61	197.1	
	Twell	. 15	1.35		9,00	840 4	
	T	l .				44.3	
	Tunk	.	' 			3419	
	7-	12.30	18.22	. 15	2 94	240 (
•	Twi			'		6.5	
	Tw			· · · · · · · · · · · · · · ·		160 (
•			·			154.4	
	Tw1					207 3	
	Twee		1.74		,	37 4	
	Twe 15	8.11	4.98		.73	241 4	
	T w 105	• • • • • • • • • • • • • • • • • • •			98	143 9	
					1.23	356 (
						4 7	
	V12 69	33 21	132.56		5.06	652 3	
	-;- →		l				
	To8 26	9983.84	9948.38	852.24	\$4 04 5 0	052,572.4	

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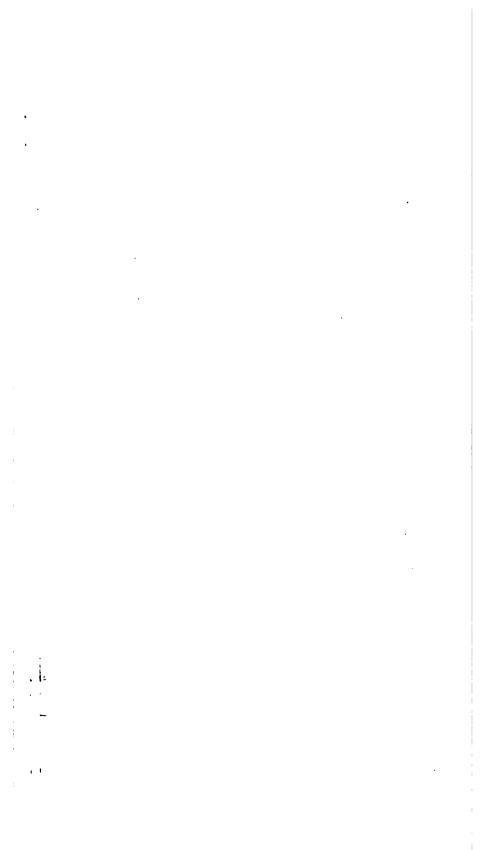
PUBLIC FINAL YOUR

Date.	-	Brid	ges.	Miscell	Total	
	por.	Material.	Labor.	Material.	Labor.	Expense.
	1.26	0 983.84	988.38	652 .24	\$404.50	952,572.4 2
- 1™94, to April 16, 1895						118.90
•	¥.43				• • • • • • • • •	290.7
• •	3 · · · ·	· • • • • • • • • • • • • • • • • • • •			•••••	70.9
•	9.80	62.68	8.58 17.75	• • • • • • • • • • • • • • • • • • • •	2.38	1,092.64 311.8
••	3	.25	7.49		• • • • • • • • • • • • • • • • • • • •	810.5
••	57	. 23	1.49			120.1
••	13	.18	19.86			41.50
	3		15.50			82.40
• •	97					467.47
						8 2
	70				••••	500 3
	%	1.90	6.66			1,027.7
	y					18.7
	4		· · · · · · · · · · · · · ·	l		19 10
	§					2.9
	3					4 00
	1	••••••				4.00
	7 .73	01,048.80	81,043.22	052.24	\$406.88	\$57,012.5
ork on Streets April	14 84		62,092.02		8459.12	957,012.5

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Date		tains.	James St.	Viaduct.	Genera	ul Work.	Total
	al.	Labor.	Material.	Labor.	Material.	Labor.	Expense
pril 16, 1894, to	_.						9 105.06
• •	!						119.02
• •	. · ·		<u> </u>				890.86
• •							3,828.11
••							148.06
••	! · • ·						482.87
	. "	6359 ,08					415.76
	•		\$475.75	0179.85			655.60
	• •				\$4.95	01,469.73	1,474.69
•	• •	\$359.0s	6475.75	e179.85	04.95	01,469.73	68,064.05
Totals Apri		., 0415.76	i '	• ●655.60		01,474 64	\$8,064,08

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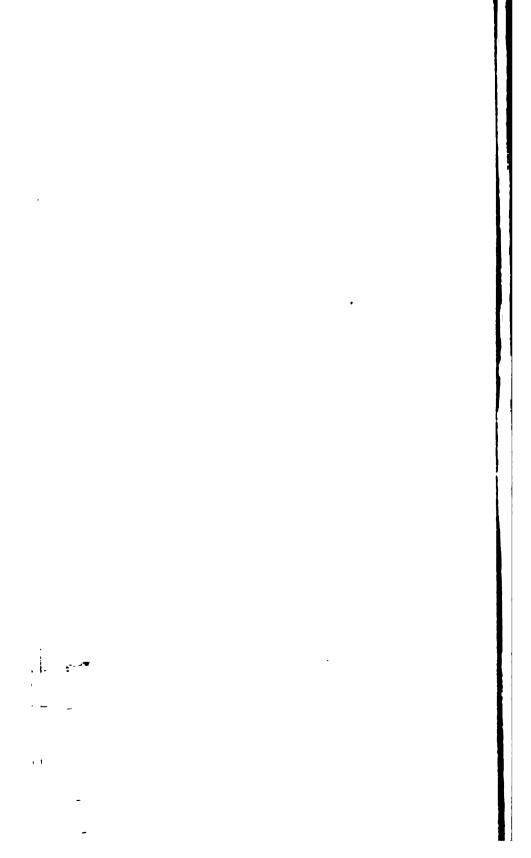
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WORK DISTRIBUTED ON ALLEYS.

		-		,	ļ :	:	Š	Sewer	
			į	Paved Alleys.	Unpaved Alleys.	Alleys.	Mainte	Maintenance.	Total
		¥		Labor.	Material Labor. Material. Labor. Material. Labor.	Labor.	Material.	Labor.	Expense
	!						-		
Gener	April 16, 1894, to April 16, 1895 General Cleaning	6810.20		:					9 810.20
Gener	General Repairs	:	86.23	\$62.24	662.24	:			68.47
Gener	General Repairs	:		:	10.80	883.23	:	:	94.03
Flushi	Flushing and Repairing Sewers.	:	:	:			\$53.82	9141.76	495.58
Totali	Totals	0810.20	8	2.2	\$10.80	943 23	- - - - - - - - - - - - - - - - - - -	9441.36	6441.76 91,469.28
 April :	Totals April 16, 1894, to April 16, 1895.	0£ 01%		19 41	 	80.103	1	1195.58	9195.58 91.168 28
1									

SUMMARY.

laneous Work	\$ 66,544.83	
Miscellaneous Expense Account	10,487.53	
Total Expense from April 16, 1894, to April 16, 1895		\$ 77,032.36
Estimated amount of material on hand April 15, 1895		4,253.29
Total	-	\$ 81,285.65

CLEANING PAVED STREETS BY CONTRACT.

Street	From.	Ģ	Commenced	enced.		Ended.	Commenced.	eq.	Ended		Fret on Street	No Time	Meek	Per Jean- 10k	Total Cost.
: ! ! !							:-	1		-		, ~	-		
<u>۔</u> :	Third	Sixteenth		2, 1494	Ö	31, 1894	-			-	5.230	69	~	122 40	8 1.545 60
Bell T	:	Sixteenth		165			-	:		-	1.636	::	~	ŝ	360.08
:	•	Ninth		2, 1894		<u>.</u>	:	:			1, 405	6	?!	÷	341.5
Eighteenth 'M	:	Woodland		1, 1894	No.	3	Mar. 1, 1895	195 AL	Apr. 15, 1495	1×93	6.313	5.	•	33	1,121.8
:	:	Liberty		1881	Ç	<u>.</u>		•		:	1.120	?	- ~	3	331.2
		Bluff	Mar. 5	1881		3			:		9.x	ž	~	8.	833.
:		Delaware	May 16	16, 1894		3.	:		:	-	÷	×	T+	8.33	16.0
	:		Mar. 4	1×8		3.	:	:		:	2.965	- 69	•	13.15	834.8
:			June 10	1491	Ö	Ę	-	:	:	:	5.25	=	~	33 E	1.073 @
Independence W	:	Woodland	une 3	1494	No.	30, 1594.	Mar. 1, 1895	395 AL	Apr. 15 1895	1895	5.963	9	ø	15.95	1,052,70
•	:		Mar. 1	1881	Det.	31,		:	:	:	8. 49x	ള	~	? =	1.217.4
:	Woodland		Apr. 16	16, 1494.	Nov	훓	-	195 AL		1895	2.566	=	-	£	217.9
:	:	Forest	June 1	1494	Š.	3.	Mar. 1, 1495	(95 A)	Apr. 15.	1895.	2.532	8	-	ŝ	27.72
	:	:	Apr. 17	76/		§.		A 56		1495	3.349	æ	-	3	3.618
:	•	:	Mar. 1	1.94		₹.					1.173	- E	-	9 .	19.7
:	:	:	Mar. 1	1, 1594		3.	:	:	:	:	2,331	<u>:</u>	•	₹	1,050,1
-	ndependence	:	Apr. 16	16. 1491	No.	8	Mar. 1, 1895		Apr. 15, 1895	1895	1.277	=	_	2	131.2
:	:	:	Mar.	767	ŏ	<u>.</u>	•				3.299	??	~	8	Đ. 10 5
:	Third	Ninth	Mar. 3	1894	: :	81, 1894		:	:	:	2.336	103	- 69	11.10	1,143.9
		-			_		_	-						_	

STREETS SPRINKLED BY CONTRACT.

			_		•			i	-			ıc	0		٠,
			eq.	_	eq.			Time		-	100	. g	IJį.		
Street.	Prom.	T.	Соттеп	Ended.	Соштепс	Ended	Lineal Fe	Months	Days Mo. Time	Sprinkled Per Day.	Price Per Lineal Fo Per Mont	Total Cos Sprinklin	Deduction W Comply w	Oraniba Total Issu	Tax Bills.
			1894	1881	1895	1895		<u>-</u>	<u> </u> _						
:	Fifth	St. Louis	June 14	Nov. 30.	Mar. 1	. Apr. 15.	1.087	. ·	-:	<u> </u>	•	228.21	21	•	228.21
3rJadway	Eleventh	Sixteenth	Mar. 1.	Oct. 31.	:	:	2,244	۱-	83	<u>.</u> ق	-	329	70	- <u>:</u>	859.0
Sroadway	Third	Eleventh	Apr. 16.	Nov. 30.	Mar. 1.	Apr. 15.	2.73	æ	62	7	283	705			305.5
amphell	Ninth	Sixteenth	Apr. 16	No. 30		Apr. 15.	3.207	æ	25	7	27.5	793	73		798 7
harlotte	Hitch	Independence					1000		5		7.6	163		_	á
:	Fifth	Tenth	i i	350			1 761	٠ (٠	3 .		200	208	•		
		Tollien				. ;		- (3 9	•	017	5	:	:	
herry	Fou teenth	Nineteenth	nue 3				2,850	-	2	-	20.	521	 P		521.7
Eleventh	Santa Fe	Liberty			Mar. 1	Apr. 15.	610.1	-	2	- •		- 28			8.8
Eighth	Mill	Hickory	-	Oct. 31.	:	:	2,389		- 8	٠. ص	213	£23.	02.01		415.3
leventh	Main	Summit	÷				2.832	- (-	_ 8	8	013	396.	. :		396.4
ourteenth	Virginia	Woodland	Apr. 16.		Mar. 1.	Apr. 15.	1.711	30	- 62	7	02 s-5	9		-	8.00
Fifteenth	Main	Campbell	Mar	Oct. 81			2 893	(-	9	-		433			6 687
	Virginia .	Prospect	901	S S	Mar	Apr. 15	4 816		-	-	08 19-20	1 288	:	_	288
	Independence	Fifth	Anr 17	Ž			71526	- 2	. 28	_		840	:	•	7 078
9000	Twelfth	Sixteenth	Na.	200	_		1.69		_	-	76	254		:	254 9
	Fishth	Twenty-First	Y Ta	200			7		2		- -	1 667	-	- -	
	Sirteenth	Rightsonth		S ACK	Mor	Anr 18	185	- 00	8	, 4	7	980		:	980
	Ninth	Fourteenth	Ā		_		2, 178		2		01 10-11	331	7	<u>-</u>	331.8
	Third	Independence	Mar				5	-	S	•	001-01 6	261		3	260 8
- !	Fighth	Nint N	May 98	200			96.1		. «	-	1-16	=			
iberte	19th to a point	900 % a of 17th		2	7	Ant 15	9 69 5	a	, g		200	į	<u>:</u>		2016
	Eighth	•							2 8		**		:	<u>-</u>	6.88
:	1	Tuesting						- 6	3 8		4.1		:	:	
	I WOILLI	I wellieth			:	:	0.910	- 1	8 8		* :		:	:	
Missouri Ave	Delaware	rorest	-	Oct. 31	:	:::::::::::::::::::::::::::::::::::::::	7 . O	-	3	,			::	:	700
ulberry	Eighth	Thirteenth	Mar. 1.	Oct. 31.	:		1,931	-	 8	<u>~</u>			:	-	298.5
	Santa Fe.	Mulberry	Mar. 1.	Oct. 31			384		 8	8			_:	-	73
	Grand	Locust	Mar. 1	Oct. 31			886		8	8	02 1-20	155		-	155.2
					_					_					
						!							<u> </u>	<u> </u>	
Fotals carried forward	ward												-	-	20 000 014
				:		:	:	:	:		: : :	812, 834, 02	22.53	-	3

STREETS SPRINKLED BY CONTRACT.—CONTINUED.

Total Issue ii Tax Bills.	\$12.320.25 \$90.78 1,010.07	616.54 414.44 1160.93 222.32	22.22.22.22.22.22.22.22.22.22.22.22.22.	833.52	
Deduction to Comply with Ordinance.	613			¥	'
Total Cost fo Sprinkling.	612,331.02 290 79 1,010.07 174 78	22.00		353 (22 353.52 353.52 619.349.172	1
Price Per Lineal Foot Per Month.	0.2 9-10	.02 1-5 .01 89-100. .01 8-100. .013.	0015-12 0017-12 002-1-5 002-1-5 0017-10 0017-10	\$	ļ
No. Times Sprinkled Per Day.	on → on →		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	n on	
Months.	8882	8888		88	ĺ
Lineal Feet on Street.	2.02.4 .04.077	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
Ended.	1895 Apr. 15	Apr. 15	Apr. 15. Apr. 15. Apr. 15.		
БээшэттоЭ	1895 Mar. 1.	i i	XXXX Second		į
Ended.	1894 Oct. 31. Nov. 30. Oct. 31.			Oct. 31	
- Соттепсед.	1894 Mar. 16 Mar. 16	والمراجع المراجع	러러러러글벌글라	3 3	
Ę	State Line. Cleveland. Eighteenth	State Line. Penn. Holly. Twelfth.	Bell Summit Mulberry Hickory I wenty-Third Fifteenth St Louis St Louis Twelfth	Ninth Ninth	
From.	Mulberry Prospect Eighth	Union Ave Grand. Madison Grand.	Liberty Broadway Liberty Flutt Eighteenth Fourteenth Ninth Ninth	Seventeenth Third	;
Streets.	Totals forward Ninth Ninth	St Louis. Seventh Seventeenth Sixteenth Santa Fe	Twelfth. Twelfth Twelfth Chion Ave. Vine Vine Wyoning Wyoning	Wytening Sevent Walnut Third Total Cost for Sprinkling Total Deductions Made.	

STREETS SPRINKLED AND CLEANED BY CONTRACT.

	Issue in Tax Bills.	\$ 550.25 857.68 857.68 230.12 230.12 231.05 231.73 231.73 231.73 231.73 231.73 231.23 231.23 231.23 231.23 231.33 231.	***************************************	
De duceta	to comply with Ordin'ce	238 65 238 65 6 42 99 40 147 29 167 24 18 08	0.000000	41,880.79
	Of Cleaning and Sprinks fing	826.88 236.37 236.37 236.37 236.36 826.26 827.29 1.665.05 1.665.05 1.655.05 1.655.05 1.655.05 1.656.05	811,565,20,817,812,00	The same of
50	Cost for Season,	823, 465 (104, 105) (1	\$11,565.20	************
Cleaning.	Cost per Cleaning	24.50 1.00		
2	No. Times per Week.			******
	No. Times noses2 tol	200 200 200 100 100 100 100 100 100 100		4.5
-2	Cost for Season.	195.84 267.88 72.88 801.06.87 190.72 190.70 119.80 119.81 119.82 190.82 190.82 190.83 191.88 191.88	*5,746.80	200 300
Sprinkling	Price. Lineal Ft. per Mo.	20222222222222222222222222222222222222	9	CANNAGO
Spr	No. Times per Day.		1	1
	Days.	### ### ### ### ### ##################	- 6	1
	.edtaoM		6	3
196	Lineal Fe	1,222 1,913 500 500 2,109 1,091 1,091 1,091 1,091 1,318 1,419 1,419 1,419 1,419 1,419 1,218 1,218 1,218 1,419 1,218 1,21	4,600	
	Ended	April 15 April 15 April 15 April 15	*******	Common Services
pə	Соттепс	Mar.1 Mar.1 Mar.1	******	
4	Ended	1894 000 ct. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	******	25.000
pa	соттви	Mari Mari Mari Mari Mari Mari Mari Mari	ng	
	Ŧo,	Twelfth Ninth Main Main Main Main Miroadway Virgana Virgana Seventh Twelfth No. Ave Broadway Winneerith Mo. Ave Broadway Broadway Broadway Broadway Month Roadway Month	Total Cost for Cleaning and Sprinkling	
	Frem	Ninth Fourth Second Grand Grand Grand Grand First Indep'd'ce. Mo. Ave. Mo. Ave. Main Third Main Clausware Main Recond Seventh Seventh	for Cleaning	otal Deductions made
	Street	Baltimore Delawate Delawate Ekventh Fitch Fourth Grand Grand Grand Main Main Main Main Mark Tenth Tenth Third Waltul Waltul Waltul Waltul Waltul Waltul Waltul Waltul	Total Cost	Total Dedu

SUMMARY OF STREET CLEANING AND SPRINKLING FROM APRIL 16, 1894, TO

APRIL 16, 1895.

	Cost. Total Cost.	:	e25.321.21	707 68 624,029.89	:	26,535.99	21,567.94	1,71% 67 23,286.61	2 2 2 2
			e25.321.21	107 68	16,949.83	9,5%6.15	21,567.94	1,71% 67	1
	Miles.	•	1:11	4 9-10	8	01-9 81	26 1-5	1-	, X031
•	Ended.		•121 ······	March 1, 1895 April 16, 1895 4 9-10		Jan. 1, 1495 April 16, 1895 74 6-10		April 16, 1495	- 1801 to Annil 1
	Commenced.		:	March 1, 1595	:	Jan. 1, 1495	:	March 1, 1495 April 16, 1495	Total root of Cleaning and Sprinkling ereats. April 16, 1961 to April 16, 1905
•	Ended		Dec 31, 1494	:	Dec. 31, 1494	:	Dec. 31, 1994	:	- Sand Sprinkling
	Commenced.	į	April 16, 1494		April 16, 1894		April 16, 1894	:	octob of Cleaning
			Cost of cleaning paved streets by contractors April 16, 1494 Dec 31, 1494	Cost of cleaning paved streets by contractors	Cost of cleaning paved streets by Dept. of Streets April 16, 1891 Dec. 31, 1484	Cost of cleaning paved streets by Dept. of Streets	Cost of aprinkling streets by contractors April 16, 1894 Dec. 31, 1894 26 1-3	Cost of sprinkling streets by contractors	

There was no sprinkling done by this department the past season.)

PERMITS FOR EXCAVATIONS.

	Total Permits Issued.		216 208 208 208 168 1168 1161 1111 1111 129 2,080
.esimts.	neous Pe	Miscell	- 88-88 5
Poles.	and Cos.	Missouri and Kansas.	- w 4 w w w w
guine	Telegraph and	Postal.	t-
d Resc	Tel	Western Union.	e,
Setting and Resetting Poles.	Electric Light.	American	
Set	1	Kansas City.	
Gas.	By Kansas City Gas Light & Coke Co.	Repairs.	g
ن	By Kan Gas L Cok	Exten- sions.	- 8211231100 81 81
	1	Total Sewer Excava- tions.	83 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Sewer.	Const. Cemer. Repairs. Total Sewer. Sewer. Sewer. Sewer.		21. 29. 29. 31. 31. 32. 33. 34. 35. 36. 37. 38. 38. 38. 38. 38. 38. 38. 38. 38. 38
			86 27 27 27 28 31 31 31 31 30 30 30 30 30 30 30 30 30 30 30 30 30
Total Water Exca- vations.			25 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	By Nat'l Water Works.	Exten- sion.	4 4 2
Water.	By No.	Service.	ю сто о о о
š	By Plumbers.	Repairs.	20 100 80 11 100 100 100 100 100 100 100
	Plum	Const.	28 28 28 28 28 28 28 28 28 28 28 28 28 2
	Months of 1894-5.		April 16 to 30, 1894 May, 1894 June, 1894 June, 1894 May 1814 August, 1894 Seprember, 1894 November, 1894 Annary, 1895 February, 1895 April 1 to 16, 1895

ANNUAL REPORT

--- OF THE---

SUPERINTENDENT OF BUILDINGS,

-FOR THE-

FISCAL YEAR ENDING APRIL 15, 1895,

AT TWELVE O'CLOCK, NOON.

A. W. LOVE, Superintendent.



DEPARTMENT OF BUILDINGS.

To the Hon. the Board of Public Works, Kansas City, Mo.:

GENTLEMEN:—I have the honor to submit herewith a report of the Department of Buildings for the fiscal year 1894.

The permits aggregate 1,787, at a total estimated cost of \$1,418,695.00. As it is the usual custom to underestimate the cost of buildings, rather than overestimate them, the actual cost of buildings and improvements in this City the past year would probably not fall far short of \$1,500,000.

Considering the extremely depressing financial situation throughout the country, which has, of course, been felt to some extent in this City, I consider the showing very good, the more especially since it shows a very gratifying increase over the fiscal year of 1893, when the permits aggregated not quite a million dollars. During the "glorious" boom period in Kansas City it was not uncommon for the cost of building improvements to reach from eight to ten million dollars manually, the banner year being 1886, when permits were issued to the amount of \$10,393,207. Since 1886, the decline was at first slow, 1888 showing up well with \$8,675,465, and then within two years, or the fiscal year 1890, showing but \$3,110,457; 1891, \$1,092,776; 1892, \$1,495,268, and 1893, \$998,746.

The indications for this season seem to point to renewed activity in the building line, which indicates that Kansas City has got her "second wind," and I trust that my report to your Honorable Body for the fiscal year 1895 will make a much more gratifying showing than even the present one.

A large number of splendid residences have been built the past year in the old Eleventh, Twelfth, Thirteenth and Four-

teenth wards, which are, of course, not embodied in this report, and which, if they were, would no doubt swell its aggregate at least another one hundred thousand dollars. Many costly residences are also to be built in the outlying districts the present season.

A great number of the hastily and poorly constructed houses built during the "boom" now badly need repairs; many of them have been repaired during the past two years and many more will no doubt be repaired the present season. I have ordered a great many of such houses repaired during the past year and expect to continue to do so when it can consistently be done without involving the City in litigation with the owners. I have endeavored, with the limited force at my disposal, to as nearly as possible enforce compliance with the building ordinances of the City, both in the erection and repair of buildings. One of the two inspectors of the department has had to devote considerable time the past year to an inspection and report under the

STATE FACTORY INSPECTION LAW,

which was made subsidiary to the Building department by Ordinance No. 5,794, approved April 16th, 1894, in conformity with an Act of the Missouri General Assembly, approved April The object of the legislative enactment is to pro-20th, 1891. vide for the health, safety and convenience of employes in all manufacturing, mercantile or other establishments, located in cities within the State containing over five thousand people. Under the provisions of the act, municipalities are required to provide for its enforcement by designating a suitable person to carry out its provisions and make semi-annual reports to the State Labor Commissioner, giving in detail, on blanks provided for that purpose, the condition of all places inspected. assuming control of this department, May 1st, 1894, I have caused to be made two semi-annual inspections and reports to the State Labor Commissioner, a tabular synopsis of which will be found hereinafter appended, and to which I respectfully request your attention. In view of the fact that this inspection and report is required to be submitted on the first day of March and September of each year and of the increased activity in building operations in all parts of the City, and also the probability of important public work coming within my supervision during the next few months, I have requested, and the honorable Common Council has granted me, the services of an additional inspector for such time as may be deemed necessary by your Honorable Body.

NEW WORKHOUSE AND HOSPITAL.

At the request of, and by the concurrence of your Honorable Body, the City Council some months since by joint resolution directed this department to prepare plans and estimates for the construction of a new workhouse and hospital. This has been done and the plans are now on file in this office. It has, however, been found to be impossible to construct and equip the buildings, complete with heating and ventilating apparatus, etc., within the original contemplated cost of \$15,000 each. Indeed, the workhouse alone, when the cost of cells are included, will be near \$22,000, and the hospital will probably cost, complete, about \$20,000.

The County Court of Jackson County has been asked to assist the City in the erection of the hospital, inasmuch as many county charges are taken there for treatment each year. The Court now has the matter under advisement and have promised that if the County's finances are in such a condition as to make it possible, it will assist the City with a liberal appropriation toward the cost of the hospital.

The workhouse plans contemplate a building which I consider a model for a city prison. The sanitary arrangements, ventilation, floor plans, cell rooms, etc., are modeled after the most modern and approved architecture for that kind of a structure. The same may be said for the proposed new hospital.

These buildings are both badly needed by the City and if

the condition of the City's revenue will justify, both should be constructed during the coming summer and fall.

Considerable public work has been done under the supervision of this department during the past year. Frescoing the walls, ceilings, etc., of the City Hall, for which \$2,000 was appropriated, was very well done for \$1,365.50. Damage by fire at the Market House, which was fully covered by insurance, was repaired and the entire interior repainted from the funds received from the insurance companies. Electric lights operated by the City Hall plant have been installed in the City Market House, which will save the City quite an item of Electric lights have also been installed in the old workhouse, as it was considered very unsafe to use coal-oil lamps in the old wooden building. Other much needed, temporary repairs were also made at the workhouse, but its condition is still a menace to persons confined therein. expense has been found necessary in the proper maintenance of the City Hall and a carpenter has been employed from time to time for that purpose.

I would call your respectful attention to the list of official notices served during the past year for various purposes. In all cases I have urged a full compliance with orders given, and in several instances have been compelled to bring parties into Police Court for a persistent refusal to comply with official notices. All cases prosecuted were convicted.

In the case of the district known as the West Bluffs, which the City Council ordered me, in connection with the Health Department, to investigate and if possible renovate, I, in company with a health officer, made several trips along the ledges and under the "brow of the beetling bluffs," and found conditions there existing which are almost indescribable and which could hardly be believed to exist in a city considered as healthy as this. The filth of some of the houses and utter degradation of many of the inhabitants was something awful. I ordered several of the shanties torn down and others repaired and put in a better sanitary condition. Many of the people

begged to be allowed to remain in their humble and dirty home until the rigor of the winter months had passed, as they could find shelter no place else. This was allowed when they showed the proper disposition to clean up a little. The West Bluffs, in its present condition, will always be a menace to the health of that section of the City, as there are no sewer connections to speak of in that district. Some sensible means should be devised for bettering the condition of that locality.

Following is the tabulated statements showing the business of the office during the past year:

BUILDING PERMITS ISSUED AS FOLIOWS:

APRIL 16TH, NOON, TO APRIL 30TH, 1894.

·				
Kind of Buildings.	Number of Permits.	Front Feet.	Estimated Cost.	Fees.
·				-
Brick Business Brick Residence	1	25 165	4,000 00 23,300.00	8 2 00 11.63
Brick Barn	1	1 25 20	1,625 00 1,200 00	.80 60
Miscellaneous Permits	51	1	9,975 00	26.00
Total	60	235	0 40,100.00	0 41.05

MONTH OF MAY, 1894.

Kind of Buildings.	Number of Permits	Pront Feet.	Estimated Cost	Fees.
Brick Business	8	31	a 1.500 00	0 1 50
Brick Residence	.,	264	41.100.00	20 55
Brick Barn	,	177	15, 200, 00	20 13 4 (8)
	3			
Brick Newspaper Office	1	1 110	50 (HH) (H)	25 (H)
Brick Office Building	1	24	2,000 00	1 110
Brick I lacksmith Shop	1	20	4(9) (9)	50
Frame Business	1	24	650 00	50
Frame Residence	11	201	N . MH (N)	6 (0)
Frame Barn	.;	162	360 00	2.50
		10-		• •
Miscellaneous Permits	165		. 72,430 00	104 45
Total.	200	991	6192,040 00	6170 (10

MONTH OF JUNE, 1894.

·=				
Kind of Buildings.	Number of Permits	Front Seet	Esti ≠a ted Cost.	Fees.
Brick Business	5	226	\$23,3HU 00	•11 75
Brick Residence	2	1 35	1,400 00	
Frame Business.	1	1×3 16	7,000.00 300.00	3.50 .50
Frame Barn	5	145 64	11,000.00	2.50
Frame Greenhouse	1 109	48	300.00 30,425 00	. 50 58 . 2 5
Total	13;	1 484	685,345 0 0	19 0,40

MONTH OF JULY, 1894.

Kind of Buildings.	Number of Permits.	Front Feet.	Estimated Cost.	Fees.
Brick Business	4	146	27.950.00	a 14.20
Brick Residence	5	151	31,500.00	15.75
Brick Barn	i	32	1.000.00	.50
Brick Office	i	24	800.00	. 30
Brick Warehouse	i	185	75.000.00	37.50
Frame Residence	×	192	14.300.00	7.60
Frame Barn	í	68	900.00	200.00
Frame Warehouse	i	25	100.00	.50
Frame Mattress Factory	i	30	1,000.00	.50
Miscellaneous Permits	102	,	22,240.00	52.25
Total	129	853	8174,790.00	 ●131.30

Month of August, 1894.

Kind of Buildings.	Number of Permits.	Front Feet.	Estimated Cost.	Fees.
			<u></u>	
Brick Business	1	25 432	0 2,500.00 59,950.00	1.25 30.25
Brick Coal Office	10	31	100.00	.50
Brick Warehouse	i	61	8.000.00	4.00
Frame Residence	11	266	15,400.00	9.15
I rame Barn	9	145	2,350.00	4.75
Frame Blacksmith Shop	1	20	800.00	. 50
Frame Public School	1	84	2,400.00	1.20
Miscellaneous Permits	140		44,020.00	77.75
	,	-		
Total	181	1.064	0185,020.00	0129.35

MONTH OF SEPTEMBER, 1894.

Kind of Buildings.	Number of Permits	Front Feet.	Estimated Cost.	Fees
Brick Business	5	176	• 9,600.00	6 5, 13
Brick Residence	11	266	50,000,00	15.10
Brick Barn	8	63	1,400.00	1.56
Brick Office	1	16	400.00	. 54
Brick Hotel	1	87	7,500.00	3.7
Stone Church	1	57	6,000.00	3.00
Frame Business	1	18	150.00	. 50
rame Residence	11	219	17,300.00	9.40
Frame Barn	8	105	680,00	4.0
Frame Coal Office	1	20	300.00	. 50
Frame Warehouse	2	64	1,500.00	1.00
Frame Blacksmith Shop	1	12	50.00	. 54
Miscellaneous Permits	149		22,340.00	74.70
Total	195	1,058	497 ,170.00	0119.6

MONTH OF OCTOBER, 1894.

Kind of Buildings.	Number of Permits.	Front Feet.	Estimated Cost.	Fees.
Brick Business	3	162	0 1,265.00	6 7.25
Brick Residence	6	161	18,900 00	9.40
Brick Barn	3	85	1,400 00	1.00
Brick Warehouse	2	145	49,500.00	24 75
Brick Coal Office	*	24	1 250 00	1 00
Brick Storage	1	33	750 00	. 50
Brick Church	1	1 48	10,000.00	5.00
Brick Smokehouse	1	. 5	40.00	.50
Frame Business.	1 8	77	2,680.00	1 H5
Frame Residence	•	104	4,400 00	2 40
Frame Barn.	•	64	360.00	2 50
Frame Warehouse	!	40	1,000,00	.50
Miscellaneous Permits	133		25,960,00	72.80
Total	164	497	0131,190 00	0129.45

Month of November, 1894.

Kind of Buildings.	Number of Permits.	Front Feet.	Estimated Cost.	Fees
Brick Business	3	95	8 6 450 00	4 3 50
Brick Residence	7	197	15 300 00	9 15
Brick Barn	i	20	500.00	50
Brick Office	1	35	1 (88) (8)	50
Brick Carriage Works	i	24	4(8) (8)	50
Brick Engine House	i	130	8 (HH) (H)	1.50
Frame Residence	ä	*1	9 500 (0)	4 73
Frame Barn	3	54	470.00	1.50
Frame Office	1	20	4(4) (8)	50
Miscellaneous Permits	140		34,220 (0)	76 15
· ·				
Total	161	636	674,240 00	09% 55
			1	

Month of December, 1894.

Kind of Buildings.	Number of Permits.	Front Feet.	Estimated Cost.	Fees
Brick Business	1	18	• 500.00	s .50
Brick Residence	1	38	3,000.00	1.50
Brick Barn	1	• 22	1,500.00	. 75
Brick Office	1	10	100.00 ±	50
Frame Business	2	49	800 00	1.00
Frame Residence	7	156	8,600,00	5.00
Frame Barn	i	16	100.00	.50
Miscellaneous Permits	74	••••	27,110.00	49.0
Total	88	309	041.710.00	658.86

Month of January, 1895.

Kind of Buildings.	Number of Permits.	Front Feet.	Estimated Cost.	Fees.
Brick Business	8	92	047,200,00	624.00
Brick Residence	8	66	5.000.00	2.50
Brick Barn	i	16	200.00	. 50
Frame Residence	5	92	5,100.00	8.25
Frame Ice House	1	35	900,00	. 50
Frame Marble Works	1	14	120.00	.50
Frame Barn	1	16	180.00	.50
Miscellaneous Permits	49		21,370.00	30.85
Total	64	331	680,070.00	062.60

Month of February, 1895.

Kind of Buildings.	Number of Permits.	Front Feet.	Estimated Cost.	Fees.
Brick Residence	8 1 52	229 15	\$28,300.00 150.00 13,850.00	014.35 ,50 28.50
Total	61	244	842,800.00	#4 8.85

Month of March, 1895.

Kind of Buildings.	Number of Permits.	Front Feet.	Estimated Cost.	Fees.
Brick Business	6	194	0 10.200.00	5 .10
Brick Residence	14 .	409	96,700.00	48.85
Brick Barn	2	50	4,500.00	2.50
Brick Play House	1	10	300.00	.50
Brick Street Car Barn	1	50	3.500.00	1.75
Brick Office	1	10	200.00	50
Brick Brewery Depot	i	43	6,000.00	8.00
Frame Business	i	15	100.00	.50
Frame Residence	14	308	24,100 00	12.80
Frame Barn	6	97	1,030.00	8.00
Frame Warehouse	3	94	1,350.00	1.50
Frame Office	2	28	900.00	1.00
Frame Club House	i	51	72,000.00	86.00
Miscellaneous Permits	136	••••	25,110.00	68.85
Total	189	1,359	\$245,990.00	e 195.35

APRIL 18T TO NOON OF APRIL 15TH, 1895.

Kind of Buildings.	Number of Permits.	Front Feet.	Estimated Cost.	Pees.
Brick Business	3	62	• 4,400 00 ¹	8 2.50
Brick Residence	5	122	18,7(0).(0)	6 00
Brick Storage	1	25	5(H) (H)	. 50
Brick Hotel	1	200	25,000 (4)	12 50
Frame Business	1	24	1,000 00	50
Frame Residence	7	153	M. 600 00	4 30
Frame Barn	3	56	600 00	1 50
Miscellaneous Permits	84		21,950 00	46.50
Total	105	642	678,730.00	674.80

SUMMARY FOR THE YEAR BY MONTHS.

Month.	Number of Permits.	Front Feet.	Estimated Cost.	Fees.
April 16th, noon, to April 80th, 1894	60	245	• 40,100,0 0	41.05
May, 1894	.200	981	192,040-00	170 00
June, 1894	137	86%	95,845 60	90 40
July, 1894	124	453	174,790,00	131.30
August, 1894	181	1.064	135 020 00	129 15
September, 1894	193	1,053	97, 170,00	119 60
October, 1894	164	597	181, 190, 00	129 45
November, 1894	161	636	74,240.00	95 55
December, 1494	**	309	41,710 00	54 90
January, 1495	61	331	90 070 00	63 60
February, 1595	61	241	42,300,00	43 35
March, 1895	149	1,359	245 990 (0)	145.35
April 1st to noon April 15th, 1895	105	642	78,730.00	74 30
Total for year	1,737	9,492	81,414,695 UU	61,334 10

CLASSIFIED SUMMARY.

Kind of Buildings.	Number of Permits.	Front Feet.	Estimated Cost.	Fees.	
Brick Business	95 2,610 17 478 5 576 6 111 1 111 3 55 2 237 2 57 1 20	1,272	380,950.00 28,725.00 139,500.00 4,500.00 50,000.00	s 78.70	
		2.610		190.20	
Brick Barn		478		17.13	
Brick Warehouse. Brick Office Brick Newspaper Office Brick Coal Office Brick Hotel. Brick Storage.		576		69.75	
		119		3,50	
		110		25.00	
		55		1.50	
		237		16,25	
		57		1.00	
Brick Blacksmith Shop		20		.50	
Brick Play House		10		.50 .50 1.75	
Brick Smoke House		5			
Brick Street Car Barn	1	50			
Brick Carriage Works	1	24	400.00		
Brick Brewery Depot	1	48	6,000,00	8.00	
Brick Engine House	1	130	8,000.00	1.50	
Brick Church	1	48	10,000.00	5.00	
Stone Church	1	57	6,000.00	8.00	
Total for Brick Structures	182	5,901	e817,665.00	6419.30	

CLASSIFIED SUMMARY, CONTINUED.

Kind of Buildings.	Number of Permits.	Front Feet.	Estimated Cost.	Fees.
Frame Business	10	227	\$ 5,680 00	\$ 5.85
Frame Residence	91	1,977	128,200.00	71.90
Frame Barn ,	51	802	7,650.00	25.75
Frame Warehouse	7	223	8,950.00	8.50
Frame Office	3	18	1,800.00	1.50
Frame Blacksmith Shop	2	32	850.00	1.00
Frame Greenhouse	1	48	300.00	.50
Frame Mattress Factory	1	80	1,000.00	.50
Frame Public School	1	84	2,400.00	1.20
Frame Coal Office	1	20	800 00	.50
Frame Marble Works	1	. 14	120 00	.50
Frame Ice House	1	35	900.00	.50
rame Club House	1	51	72,000.00	36.00
Total for Frame Structures	171	3,591	6224 , 150.00	\$148.70

GENERAL SUMMARY.

Kind of Buildings.	Number of Permits.	Front Feet.	Estimated Cost.	Fees.
Brick Buildings	182 171 1.384	5,901 3,591	\$ 817,665.00 224,150.00 376,880.00	\$ 419.30 148.70 766 10
Grand Total for Year	1,787	9,492	\$1,418,695.00	\$1,384.10

LIST OF OFFICIAL NOTICES SERVED.

Buildings condemned and ordered torn down	No.
Unsafe buildings ordered repaired	
Fire escapes ordered	
Gutters and downspouts ordered.	
Porches ordered repaired	
Iron fire-proof shutters ordered	
Elevator shaft ordered protected	4
Walks in yard ordered repaired	-
Stairways ordered repaired	2
Retaining walls ordered repaired	
Chimneys ordered repaired.	
Sidewalk ordered repaired, where taken up to erect building	2
Smokestacks ordered built higher, so as to carry off smoke	2
Smokestacks in dangerous condition ordered torn down	
Chimney in dangerous condition ordered torn down	1
Open cisterns ordered curbed	2
Cellars ordered cleaned and put in sanitary condition	:3
Stone balustrades ordered repaired	2
Doors of public buildings ordered to swing out	
Loose cornice on building ordered repaired	1
Insecure sign on building ordered made secure	1
Platform built in alley ordered removed	
Heating apparatus in building ordered made safe	
Separate water closets for female employes ordered, to comply with	_
State law	1
Dressing rooms for female employees ordered, to comply with State law	4
Seats for female employes ordered, to comply with State law	1
Water for fire protection for building ordered, to comply with State law	1
Buildings ordered properly ventilated to comply with State law	
Total number of official notices served	241

PAY ROLL OF DEPARTMENT FOR THE YEAR.

Months.	A	mount.
April 16th to 30th, 1894	.8	24 9.16
May 1st to 31st, 1894		514.33
June 1st to 30th, 1894		476.53
July 1st to 31st, 1894		476.53
August 1st to 31st, 1894		483.73
September 1st to 30th, 1894		469.33
October 1st to 31st, 1894		483.73
November 1st to 30th, 1894		476.53
December 1st to 31st, 1894		487.33
January 1st to 31st, 1895		476.53
February 1st to 28th, 1895		462.13
March 1st to 31st, 1895		476.53
April 1st to 16th, 1895		234.71
Total pay roll for year	. \$ 5	,767.10

Synopsis of Report of Factory Inspections.

Made to the State Labor Commissioner for the Semi-Annual Term Ending August 31st, 1894.

Specifying:	Number.
Total number of inspections made	170
Inspections made where no changes were ordered	66
Inspections made where changes were ordered	104
Number who have fully complied with changes ordered	73
Number who have partly complied with changes ordered	3
Number who will probably comply in the near future	6
Number who have not complied with orders and no excuse given	
for non-compliance	16
Number who will not comply on account of various excuses given	6
Total average number of employes found in the 170 establish-	
ments inspected	6,742
Time since inspection was begun	,
Approximate time actually employed in inspection work by one	
man	60 days

Synopsis of Report of Factory Inspections.

Made to the State Labor Commissioner for the Semi-Annual Term Ending February 28th, 1895.

Specifying:	Number.
Total number of establishments inspected	182
Inspections made where no changes were ordered	166
Inspections made where changes were ordered	16
Number who have complied with changes ordered	8
Number who will comply in the near future	8
Blanks returned not filled out	4
Total average number of employes found in the 182 establish-	
ments inspected	7,792

Respectfully submitted.

A. W. LOVE,

Superintendent of Buildings.



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Board of Bublic Works

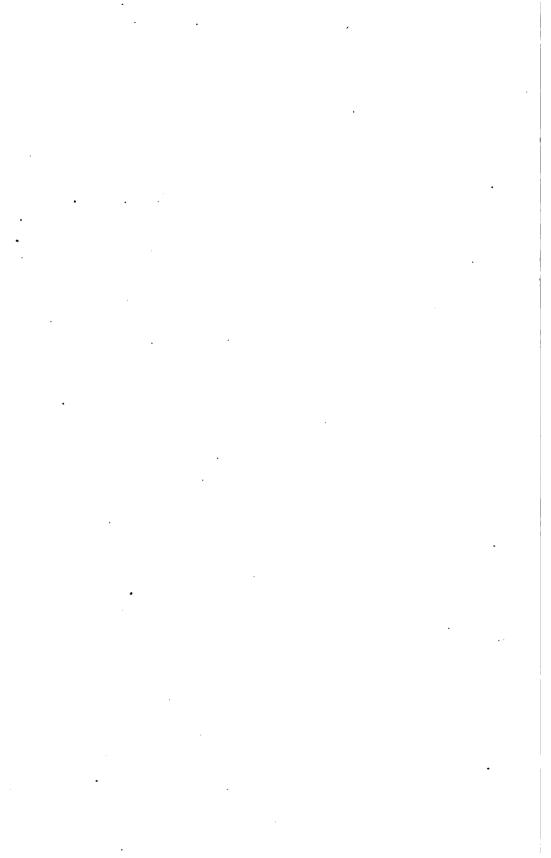


Of Tkansas City, Mo.

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fiscal Dear 1895.

Bpril 10, 1895, to Bpril 20, 1596,



SEVENTH ANNUAL REPORT

---OF THE----

BOARD OF PUBLIC WORKS



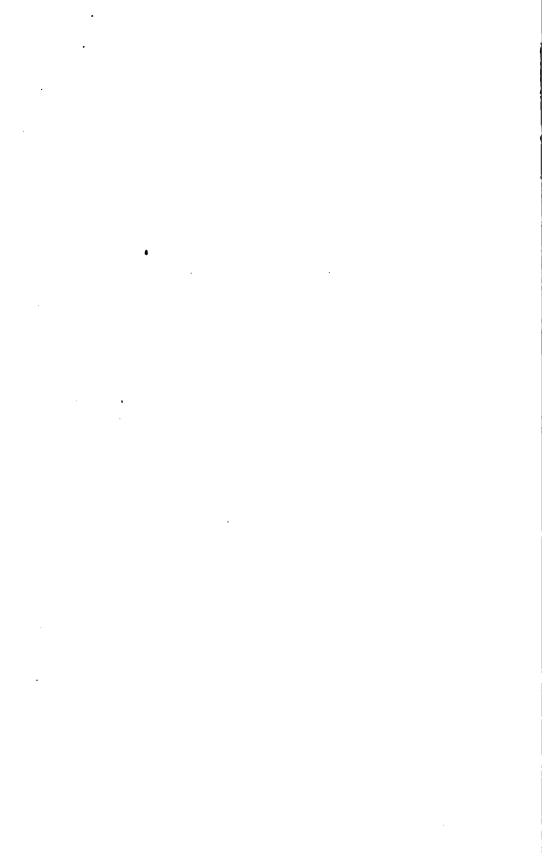
OF KANSAS CITY, Mo.

-FOR THE-

FISCAL YEAR 1895.

April 16, 1895, to April 20, 1896.

KANSAS CITY, MO.: LAWTON & BURNAP, PRINTERS AND STATIONERS. 1896.



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JOHN M. BULLOCK,								
JOHN MOLONY,	•		-		-		- C	hicf Clerk.
THOMAS F. CALLAHAN	ί,		Sup	pt. e	of Sie	dew	ilks and	l Curbing.
BENJAMIN R. WHITN	EY,	Jr.,	-		-	Ch	ief Dra	ughtsman.
DEPARTMEN	гο	F S	TR	EET	rs a	ND	ALLE	EYS.
THOMAS A. DODDS,		-		-		-	Super	intendent.
J. W. Humphrey,	-		-		•		- C	nief Clerk.
DEPAR	TM	ENT	r o	F E	BUIL	DIN	GS.	
A. W. Love,				-		-	Super	intendent.
SAMUEL E. BEAR,								

BOARD OF PUBLIC WORKS.

FISCAL YEAR 1889.

NAMES OF MEMBERS.	LENGTH OF SERVICE.
J. M. Patterson, President	.June 11, 1889, to April 21, 1890.
Fred. Howard, Member	
	June 11, 1889, to April 25, 1890.
	June 11, 1889, to May 2, 1890.
FISCAL YEAT	
J. S. Cannon, President	
Wm. Weston, Member	
	May 2, 1890, to April 27, 1891.
	May 2, 1890, to April 27, 1891.
FISCAL YE	•
J. S. Cannon, President	
Jno. R. Stoller, Member	
	April 27, 1891, to April 18, 1892.
	April 27, 1891, to April 25, 1893.
•	Nov. 12, 1891, to May 4, 1893.
•	
FISCAL YEAL	
Peter H. Tiernan, President	
	Nov. 12, 1891, to May 4, 1893.
	April 28, 1892, to Aug. 9, 1892.
	Aug. 9, 1892, to April 22, 1893.
•	
FISCAL YEAR	
Peter H. Tlernan, President	
Arthur J. Mason, Member	
	April 25, 1893, to April 25, 1894.
"Geo. Holmes, "	May 4, 1893, to May 25, 1894.
FISCAL YEAR	
Peter H. Tiernan, President	From April 18, 1882—term 4 yrs.
John C. Gage. Member	
	From April 25, 1894—term 2 yrs.
	April 26, 1894, to Oct. 31, 1894.
§R. S. Owen, "	Nov. 30, 1894, to April 21, 1896.
FISCAL YEA	
Peter H. Tiernan, President	
John C. Gage, Member	
	April 25, 1894, to Dec. 4, 1895
	Nov. 30, 1894, to April 21, 1896.
**Geo. J. Baer, "	Dec. 4, 1895, to April 21, 1896.

^{*}Geo. Holmes, appointed, vice Jno. R. Stoller, resigned.
†John Taylor, appointed, vice H. C. Murphy, resigned.
‡James H. Oglebay, appointed, vice John Taylor, resigned.
¡Geo. Holmes. re appointed.
§R. S. Owen, appointed, vice L. K. Thacher, deceased.
**Geo. J. Baer, vice L. C. Slavens.

REPORT OF THE BOARD OF PUBLIC WORKS

OF KANSAS CITY, MISSOURI,

FOR THE FISCAL YEAR ENDING APRIL 20, 1896.

To the Honorable Common Council, Kansas City, Mo.:

GENTLEMEN — The Board of Public Works herewith respectfully submits its annual report for the fiscal year 1895 (from April 15th, 1895, to April 20th, 1896).

The apportionment for the year was \$160,000.00, the unexpended appropriations brought over from the last fiscal year (1894) amounted to \$2,615.73, and \$1,237.38 rent was received for use of the Steam Road Rollers, making a total of \$163,853.11; \$2,000 was appropriated by the Common Council for charitable purposes, \$3,359.71 was transferred to the Expense Department by the City Comptroller, \$6,127.75 was taken from the Department for use in the General Fund, and of the apportionment \$5,978.36 remained uncollected, leaving a total of \$146,387.29 to be accounted for by the Board.

The total receipts and disbursements for the fiscal year were as follows:

RECEIPTS.

Apportionment by the Common Council	2,615.73
Contra.	\$163,853.11
A 1.1 . 1 1. () 1.31 1101 A0 (100	440
Appropriation to charity, Ord. No. 1131 \$2,000 Amt transferred to Expense Dept. by City Comp-	.00
troller 3,359	71
Amount transferred to General Fund 6.127	
Amount of apportionment uncollected 5,978	
	17,465.82
To be accounted for	\$146,387.29

DISBURSEMENTS.

Department Expenses.	Board of Public Works Engineering Department Street and Alley Department Building Department	\$ 9.868.50 47.575.30 81.529.69 6.921.45	
			\$145,894 .94
Appropriation "U	ns, Expenditures on account of nexpended, Cash in City Treasury		128 75 363 60
Tota	l	- -	8 146.387.29

As heretofore stated, the sum of \$1,237 38 was received from contractors for rental of the Steam Road Rollers, while the expenses of the Rollers for salaries, coal and repairs, amounted to \$2,458.96, an excess in expense of \$1,221.58.

During the year a new 18-ton Roller was leased from the O. S. Kelly Company, of Springfield, Ohio, and later arrangements were made for the purchase of the Roller.

The following table shows the expenses of the several departments of the Board of Public Works, and the fund at its disposal, to be accounted for each year since its organization:

EXPENDITURES OF THE BOARD OF PUBLIC WORKS DEPARTMENT SINCE ORGANIZED.

Fiscal year ending in April.	Board of Public Works.	Engineer- ing depart- ment.	Street and Alley depart- ment.	Building depart- ment.	Total.	Funds at disposal of Board and to be ac- counted for
1890	8 6.658.73	\$ 71.863 86	● 83.392.28	6 17,368.37	e179.292.74	\$269.814.57
1891	14.597.75	70.957.86	95.816.44	12,723,71	198,595 76	268 417.95
1892	10.947 76	56.854 (8	86,409,76	7,871.47	161,583 02	223.882 03
1893	9.274.28	57,854.11	80,507.38	7.382.81	157,022 (8	177,090.74
1894	24.588 18	49,495,91	67.746.25	6,551,32	148,376 61	181.499.61
1895	9,837.67	43,059,70	79,219,15	5,799 57	137,936.09	148.848 17
1896	9,868.50	49,575.80	81,529.69	6,921.45	145,891.94	146,387.29
			<u></u>			
Totals	\$85,787.77	(397, 164.27	\$574,120.95	664 ,618. 2 0	\$1,121,691.19	\$1,415,940.86

PUBLIC IMPROVEMENTS.

Side-walks. Plank. Plank. 83 39, 714 83 56 931 64 85 57 84 88 8 8 52 8 19 8 8 52 8 19 8 8 52 8 19 8 8 52 8 19 8 8 52 8 19 8 8 52 8 19 8 8 52 8 19 8 174 6 60	Grading Streets and walks, and Alleys. Alleys.
Side- walks, walks, walks, walks, walks, walks, walk sand Side- Si	Curbing Streets and walks, First walks wal
	Curbing 23, 113, 143, 123, 114, 124, 125, 114, 124, 125, 114, 124, 125, 114, 124, 125, 124, 124, 124, 124, 124, 124, 124, 124

The work completed during the fiscal year through the Engineering Department cost \$570,830.84, and the expense of the department for all purposes was \$47,575.30. The cost of public work during the previous fiscal year (1894) was \$597,681.69, and the expense of the department was \$43,059.70.

The paving and repaving of Streets and Alleys cost \$145,-620.33 (\$5,686.03 for Alleys).

The mileage and cost of each kind of pavement is as follows:

Materials.	Lineal Feet.	Miles.	Square Yards.	Cost	Av'g Cost per Sq. Yd.
Asphalt—Trinidad	84,717.75	6.57	129,612.78	¢329,791.86	
Вгіск	10,137.70	1.98	33,486 40	48,719 25	
Macadam	12,268.99	2 82	55,789.20	49,814.42	
Stone Blocks	1,487.70	0.28	6,885.00	9,633,83	
Cedar Blocks	600.50	0.11	1,762.00	1,978.44	1.12
Totals	59,232 64	11.21	227,485.38	\$139.934.30	

The following tables show the mileage and cost of all street paving work constructed from 1889 to 1895, inclusive, and kinds of material used.

COMMENCING JANUARY 1, 1889, ENDING MAY 9, 1889.

Material Used.	Lineal Feet.	Miles.	Square Yards.	Cost.	Av'g Cost per Sqr. Yd.
Asphalt	2,570,00 1,027.00	0.486 .194	7,645 63 4,098.70	\$21,407.76 2,746.18	\$2.80 .67
Totals	8,597.00	0.680	11,744.88	624 ,153.89	

Commencing May 9, 1889, and Ending April 30, 1890.

Material Used.	Lineal Feet.	Miles.	Square Yards.	Cost.	Av'g Cost per Sq. Yd.
Asphalt Cedar Blocks Granite Blocks Brick	37,674.97 1,173.00	2.01 7.135 .222 .667	49,244,27 146,772,14 5,079,57 18,256,72	\$112,683.96 208,807,08 16,527,42 27,056,36	92.80 1.421 8.253 2.041
Totals	58,137.27	10.064	205, 352.70	\$364,874.82	

COMMENCING APRIL 30, 1890, AND ENDING APRIL 20, 1891.

Material Used	Lineal Feet.	Miles.	Square Yards.	Cost.	Av'g Cost per Sq. Yd.
Asphalt	546.00	0.90 2.83 .10	17,690.60 50,394.60 2,765.00 7,915.80	6 48,890.92 71,160.78 1,161.30 23.074.89	62.765 1.412 .42 2.915
Total	22,855.50	4.32	78,756.00	0144,287.89	

DURING FISCAL YEAR COMMENCING APRIL 20, 1891, AND ENDING APRIL 18, 1892.

Material Used.	Lineal Feet,	Miles.	Square Yards.	Cost.	Av'g Cost per Sq. Yd.
Asphalt	15.176.00	2.86	57,110.89	6144,298.71	
Brick	6 682.50 8,825.80	1.47	24.079 80 81,258 50	40,890 63 82,839,91	1.677
Stone Blocks Cedar Blocks	771 80 1,334.20	. 14 . 26	3,054.70 4,572.90	7 859.91 6, 767 89	2.573 1.48
			·		
Totals	82,742.80	6.20	123,071.79	6232,157.01	

DURING FISCAL YEAR ENDING APRIL 17, 1893.

Material Used.	Lineal Feet.	Miles.	Square Yards.	Cost.	Av'g Cost per Sq. Yd
Brick	9 534 95 12,391 15 14 6,8,06	1.80 2.35 2.62	34,829 80 48,163 90 50,207 70	6 57,557,74 124,117 (4 37,510,46	01 649 2,576 .747
Totals	86,572.16	6.77	133,200.80	6219,145.24	

DURING FISCAL YEAR ENDING APRIL 16, 1894.

Material Used.	Lineal Feet.	Miles.	Square Yards.	Cost.	Av'g Cost per 5q. Yd.
				<u> </u>	
Asphalt	29 098 10	5 31	99 443 50	6257,049 35	62 543
Macadam	14 934 15	3 59	74 (H) 1 M)	61 915 47	. 564
Vitrified Brick	32 116 10 1	6.03	118 962 61	193,181, 95	1.617
Stone Blocks, repairs	2,250 00	. 42	9,93; 50	6,265.84	
Totals	82 420.85	15.6)	302,345 20	6322,495 65	l

DURING FISCAL YEAR ENDING APRIL 15, 1895.

Material.	Lineal Feet.	Miles.	Square Yards.	Cost.	Av'g Cost per Sq. Yd.
Asphalt—Trinidad Lake Macadam	27.221.70 6.837.60	5.16 1 29	118 469.26 21 772.00	\$308.734 62 19.587 02	\$2.64 .899
Granite Blocks	329.50	0.06	1.288 80	3.: 77 84	2.47
Brick, Vitrified	13,131.40	2.49	45 977 80	61 914 79	1.346
Cedar Blocks, repave	2,068.15	0.39	8,481.60	9,689.93	1.05
Totals	49,588.33	9.39	195,930.46	\$403,021.23	

The aggregate mileage of paved streets is as follows:

Material	Total Miles.	Increase during year. Miles.	Decrease during year. Miles.
Cedar Blocks Asphalt Brick	28.52 27.48 14.61	6,57 1,92	8.52 Taken up and replaced with
Macadam Stone Blocks	12.77	2.32	other kinds of pavement.
Totals	85.63	10.92	

At the close of the fiscal year, the public work contemplated by Ordinance and under contract, amounted to \$235,629.16 as follows:

CONTEMPLATED BY ORDINANCE.

D (Aspirate, 2 succes, Approximate cost, \$11,201.10	
Paving Brick. 6 streets. " 25.098.92	
Paving 7 i do miles. (Asphalt, 2 streets, Approximate cost, \$17,237.15 Brick. 6 streets, " 25,098.92 Macadam, 9 streets, " 91,049.13	
\$133,385	5.20
Plank. Approximate cost \$1.317.32	
Sidewalks. Plank, Approximate cost\$1.317.32 lst Class, " " 2,473.87	
3.79	1 19
Curbing, " " 12,184	
	0.00
Transing siees,	J. 00
Under Contract.	
Streets Approximate cost \$1.639.63	
Grading (Streets, Approximate cost \$1,639.63 (Alleys, " 323 75	
1,96	3 36
(Dublic " " \$16.010.70	3.00
Sewers. { Public, " " \$16 919.70 District, " " 67,235.38	
84.15	5.08
Total	9.16

A very large increase over the public work under contract at the close of the fiscal year 1894.

The accompanying reports of the City Engineer, Superintendent of Streets and Superintendent of Buildings, are complete in detail and in summary, and many of the suggestions and recommendations set forth are entitled to and should receive careful consideration.

LIGHTING STREETS.

At the close of the fiscal year there were 1,691 gas lights, 1,140 gasoline lights and 143 electric lights in service, there being no change in the number of lights during the year.

The City paid \$17.50 each for gas lights (moonlight schedule), \$19.00 each for gasoline lights (full moonlight schedule), and \$119.50 each for electric (arc) lights (all night schedule), and the total cost of street lighting for the year was \$64,574.83 after certain deductions were made to bring the total cost within the apportionment of \$65,000.00.

Kansas City Gas Light and Coke Company\$24,611.62	
F. K. Hoover, Gasoline Lights	
Kansas City Electric Light Company	
Total\$64,574.83	
Cost of Street Lighting, fiscal year 1893* *Cost of Street Lighting, fiscal year, 1894	\$68,929 10 58,428.01

^{*}Certain deductions made to bring the cost within the apportionment for the year.

WATER WORKS.

Possession of the property of the National Water Works Company was delivered to the City August 24th, 1895, as per document filed with the Board of Public Works, as follows:

SATURDAY, AUGUST 24, 1895.

Possession of all the property of the National Water Works Company described in the decree of the United States Circuit Court for the Western Division of the Western District of Missouri, of date November 28, 1894, is hereby delivered by said Company to the City of Kansas City, Missouri, and all officers, agents, servants, and employees of said National Water Works Company will govern themselves accordingly.

This August 24, 1895.

NATIONAL WATER WORKS CO.,

By Gardiner Lathrop and L. C. Krauthoff,

Its Counsel.

Possession accepted subject to terms of decree of said Court, this August 24th, 1895.

WEBSTER DAVIS, Mayor of Kansas City, Mo.

Actual possession of the property of the National Water Works Company was not taken until September 1st, 1895, the interim being occupied in checking up the books and accounts, and taking an inventory of the property, machinery, supplies, etc., of the Company that was to be turned over to the City.

For the balance of the fiscal year, viz., from September 1st, 1895, to April 20th, 1896 (7% months), the City received, after deducting \$1,108.15 for money rebated and refunded, an income of \$266,940.39 from all sources. There was appropriated by the Common Council \$11,427.11 for the extension of water mains and betterment of the service; the City Comptroller paid \$69,750.00 first semi-annual interest on \$3,100,000 Water Works Bonds and \$2,406.14 for taxes, and placed \$40,000.00 in the sinking fund; and it cost \$75,531.48 to run the plant, leaving a cash balance in the hands of the City Treasurer of \$67,825.66 at the close of the year.

The total receipts and disbursements of the Water Works Department for the last 7% months of the fiscal year 1895 were as follows:—

RECEIPTS.

From Water Rates.		2417/2211 1177	
Meter Rates 119.301.60 Building Permits 2.574.65 Special Permits 1.163.82 Deposits 6,422.65 Corporation Cocks 548.35 Meters Set 1,206.72 Meters Repaired 573.78 Meters Sold 1,131.00 Fines 421.00 Miscellaneous 1.193.57 Metropolitan Water Works Co 11.647.9 National Water Works Co 25,340.32 Interest and Miscellaneous 868.07 Contral 2268,048.54 Contral 2268,048.54 Contral 2266,940.39 Disbursements 8,425.53 Inspection Department 8,425.53 Inspection Department 5.251.53 Meter Department 5.251.53 Meter Department 4,914.64 Turkey Creek Pumping Station 21.049.79 Quindaro Pumping Station 15.864.65 Miscellaneous expenses 1,66.69 Appropriations for Extension of Water Mains 811.427.11 Taxes 2,406.14 Interest on Bonds (1st semi-annual) 69.750.60 Sinking Fund 40,000.00 Total 5,855.66 Total 8190.114.73 Cash Balance in City Treasury 67.825.66	From	Water Rates	\$ 95,605.11
## Building Permits			119.301.60
Deposits 6,422.65	44		2,574 65
Deposits 6,422.65	64	Special Permits	1,163.82
# Meters Set. 1,206 72 # Meters Repaired. 573.78 # Meters Sold. 1,131 00 # Fines. 421.00 # Miscellaneous. 1.193 57 # Metropolitan Water Works Co. 11.647.9.1 # National Water Works Co. 25,30.32 # Interest and Miscellaneous 868.07 **CONTRA.* **CONTRA.* **CONTRA.* **Contra.* **Contra.* **Contra.* **Disbursements.* **Superintendent and Engineer, office expenses. 4,055.63 **Street Department 8.425.53 **Inspection Department 8.022.33 **Betterment of Plant. 4.914.64 **Turkey Creek Pumping Station 21.049.79 **Quindaro Pumping Station 21.049.79 **Quindaro Pumping Station 15.864.63 **Assessor and Collector of Water Rates 6,340.69 **Total running expenses \$75,531.48 **Appropriations for Extension of Water Mains \$11.427.11 **Taxes 2.406.14 **Interest on Bonds (1st semi-annual) 69.750.60 **Sinking Fund 40,000.00 **Total \$199.114.73 **Cash Balance in City Treasury 67.825.66	44	Deposits	6,422.65
# Meters Repaired			
# Meters Sold		Meters Set	
# Fines 421.00 # Miscellaneous 1.193 57 # Metropolitan Water Works Co 11.647.9) # National Water Works Co 25,340.32 # Interest and Miscellaneous 868.07 # CONTRA. CONTRA CONTRA		Meters Repaired	
# Miscellaneous. 1,193 57 # Metropolitan Water Works Co. 11,647.9.) # National Water Works Co. 25,30.32 # Interest and Miscellaneous 868.07 Contral Contral		Meters Sold	
# Metropolitan Water Works Co. 11,647.9. # National Water Works Co. 25,340.32. # Interest and Miscellaneous 868.07. # CONTRA. CONTRA.			
# National Water Works Co. 25,30.32 # Interest and Miscellaneous 868.07 CONTRA. E268,048.54			
# Interest and Miscellaneous 868.07 Contral E268,048.54			
CONTRA. \$268,048.54			
Contral Cont	**	Interest and Miscellaneous	868.07
Contral Cont			4909 049 54
Rebates and money refunded 1,108.15 Total \$266,940.39		Cowen	0200,020.172
Disbursements. Superintendent and Engineer, office expenses. \$4,055.63		CONTRA.	
DIBBURSEMENTS. \$4,055.63	Rebat	es and money refunded	1,108.15
Superintendent and Engineer, office expenses. \$ 4,055,63 Street Department. 8.425,53 Inspection Department. 5.251,53 Meter Department. 8.022,33 Betterment of Plant. 4.914,64 Turkey Creek Pumping Station 21,049,79 Quindaro Pumping Station 15.864,65 Miscellaneous expenses 1,046,69 Assessor and Collector of Water Rates 6,340,63 Total running expenses \$ 75,531,48 Appropriations for Extension of Water Mains \$ 11,427,11 Taxes 2,406,14 Interest on Bonds (1st semi-annual) 69,750,00 Sinking Fund 40,000 (0) Total \$199,114,73 Cash Balance in City Treasury 67,825,66		Total	\$266,940 39
Superintendent and Engineer, office expenses. \$ 4,055,63 Street Department. 8.425,53 Inspection Department. 5.251,53 Meter Department. 8.022,33 Betterment of Plant. 4.914,64 Turkey Creek Pumping Station 21,049,79 Quindaro Pumping Station 15.864,65 Miscellaneous expenses 1,046,69 Assessor and Collector of Water Rates 6,340,63 Total running expenses \$ 75,531,48 Appropriations for Extension of Water Mains \$ 11,427,11 Taxes 2,406,14 Interest on Bonds (1st semi-annual) 69,750,00 Sinking Fund 40,000 (0) Total \$199,114,73 Cash Balance in City Treasury 67,825,66		Despura	
Street Department 8.425 53 Inspection Department 5.251 53 Meter Department 8.022 33 Betterment of Plant 4.914 64 Turkey Creek Pumping Station 21.049 79 Quindaro Pumping Station 15.864 65 Miscellaneous expenses 1,67 6 69 Assessor and Collector of Water Rates 6,340 69 Total running expenses \$ 75,531 48 Appropriations for Extension of Water Mains \$ 11.427 11 Taxes 2,406 14 Interest on Bonds (1st semi-annual) 69.750 .60 Sinking Fund 40,000 (0) Total \$199.114 73 Cash Balance in City Treasury 67,825 .66		DISBURSEMENTS.	
Inspection Department			
Meter Department 8.022.33 Betterment of Plant 4.914.64 Turkey Creek Pumping Station 21.049.79 Quindaro Pumping Station 15.864.65 Miscellaneous expenses 1.06.69 Assessor and Collector of Water Rates 6,340.63 Total running expenses \$ 75,531.48 Appropriations for Extension of Water Mains \$ 11.427.11 Taxes 2,406.14 Interest on Bonds (1st semi-annual) 69.750.60 Sinking Fund 40,000 (0) Total 8199.114.73 Cash Balance in City Treasury 67,825.66	Street	Department	
Betterment of Plant.			
Turkey Creek Pumping Station 21.049.79 Quindaro Pumping Station 15.864.65 Miscellaneous expenses 1,66.69 Assessor and Collector of Water Rates 6,340.69 Total running expenses 8 75,531.48 Appropriations for Extension of Water Mains 8 11.427.11 Taxes 2,406.14 Interest on Bonds (1st semi-annual) 69.750.60 Sinking Fund 40,000 (0) Total 8199.114.73 Cash Balance in City Treasury 67,825.66	Meter	Department	
Quindaro Pumping Station 15.864.65 Miscellaneous expenses 1,046.69 Assessor and Collector of Water Rates 6,340.69 Total running expenses \$ 75,531.48 Appropriations for Extension of Water Mains \$ 11.427.11 Taxes 2,406.14 Interest on Bonds (1st semi-annual) 69.750.60 Sinking Fund 40,000.00 Total \$199.114.73 Cash Balance in City Treasury 67,825.66	Better	ment of Plant	
Miscellaneous expenses 1,66 69 Assessor and Collector of Water Rates 6,340.69 Total running expenses \$ 75,531.48 Appropriations for Extension of Water Mains \$ 11,427.11 Taxes 2,406.14 Interest on Bonds (1st semi-annual) 69,750.60 Sinking Fund 40,000 00 Total \$199.114.73 Cash Balance in City Treasury 67,825.66			
Assessor and Collector of Water Rates. 6,340.69 Total running expenses 8 75,531.48 Appropriations for Extension of Water Mains 8 11.427.11 Taxes 2,406.14 Interest on Bonds (1st semi-annual) 69,750.60 Sinking Fund 40,000 00 Total 8199.114.73 Cash Balance in City Treasury 67,825.66	Quind	aro Pumping Station	
Total running expenses \$ 75,531.48 Appropriations for Extension of Water Mains \$ 11.427.11 Taxes 2,406.14 Interest on Bonds (1st semi-annual) 69.750.60 Sinking Fund 40,000 (0) Total \$199.114.73 Cash Balance in City Treasury 67,825.66	Misce	llaneous expenses	
Appropriations for Extension of Water Mains \$ 11.427.11 Taxes 2,406.14 Interest on Bonds (1st semi-annual) 69.750.60 Sinking Fund 40,000 (0) Total \$199.114.73 Cash Balance in City Treasury 67,825.66	Asses	sor and Collector of Water Rates	6,340.69
Taxes 2,406,14 Interest on Bonds (1st semi-annual) 69,750,60 Sinking Fund 40,000 (0) Total \$199,114,73 Cash Balance in City Treasury 67,825,66		Total running expenses	\$ 75,531.48
Taxes 2,406,14 Interest on Bonds (1st semi-annual) 69,750,60 Sinking Fund 40,000 (0) Total \$199,114,73 Cash Balance in City Treasury 67,825,66	Annro	printing for Extension of Water Mains	4 11.497 11
Interest on Bonds (1st semi-annual)	Tayor	priations for Extension of Water Mains	
Sinking Fund. 40,000 (0) Total. \$199.114.73 Cash Balance in City Treasury. 67,825.66	Intere	et on Ronde (let semi_ennuel)	
Total. \$199.114.73 Cash Balance in City Treasury 67,825.66			
Cash Balance in City Treasury 67,825.66	JIIAII		30,000 (A)
Total		Cash Balance in City Treasury	67,825.66
		Total	\$266,940.39

THE BOARD OF PUBLIC WORKS.

PETER H. TIERNAN, President.

JOHN C. GAGE,
R. S. OWEN,
GEO. J. BAER,

Members.

April 20th, 1896.

STATEMENT OF BOARD OF PUBLIC WORKS FUND.

FOR THE FISCAL YEAR ENDING APRIL 20, 1896.

Appropriations (unexpended) from last fiscal year	2,615.73 1,237.38	\$ 163,853.11	
Contra.			
Appropriation to charity, Ord. No. 1131 Amount transferred to expense dept. by City Comptroller	3 359.71 6,127.75 5,978.36	8 17.465 82	\$ 146,387.29
Expenses—Board of P	UBLIC WO	rks.	
Pay rolls—members and clerks	6.327.09 230.88		
coal, &c	2,459.96 843.36 8.21		
Total	0.21	\$ 9,868.50	
Engineering Depa	DTMENT		\$ 9,868.50
Pay rolls—Engineer and ass't engineer\$	5.018.76		
Giericai department	7.001.26		
" Draughting " " Transitmen, rodmen and chain-	5,283.26		
men	9,395.98		
" Supt. of Construction and In-	,.		
spectors	10,893.50		
" Inspector of grading	$912\ 50$		
" Sidewalk and curbing dep't	5,277.50		
" Inspector of excavations	912.50		
Harris biras armanas		8 44,695.26	
Horse hire, expense\$ Miscellaneous	1.277.51 $1.045.83$		
Abstract work, grading cases and general	1,049.60		
information	551.57		
Printing and stationery expense	5.13		
-		\$ 2,880.04	
Total			\$ 47,575.30

	STREET AND ALLEY D	EPARTMEN	r.	
Pay rolle-	-Superintendent	2.027.42		
14	Clerka	1.783.00		
44	Inspectors	3.060.00		
64	Foremen	2,914.54		
46	Carpenters	1.603.98		
64		615.45		
46	Pavers	2.215.50		
44	Masons	20.792.18		
44	Teams			
••	Laborers	33 828.77		
		•	68,840.84	
Horse hire	and keeping, expense of \$	889.85		
	machinery, tools, &c	795.84		
	repairs	93.72		
Material f	or cross-walks, bridges, and via-	00.12		
	repairs of	3,462 62		
	or street repairs	1.543 18		
	or sewer repairs	3.943.33		
Street and	inteling maid for	788.00		
	inkling, paid for			
	elements. &c	1,076 31		
Miscellan	eous expenses	96 00		
			12.688.85	
	Total	-		\$ 81,529.69
	Iotal			4 01,020.00
	Building Depar	TMENT.		
D11-	Gumania Aura dan A	2.500 00		
Pay rolls-	-Superintendent			
44	Clerk	972.00		
••	Inspectors	3,442.95		
			6,914.95	
Office exp	enses\$	6.50	6.50	
	-			8 6.921.45
Departme	nt expenses total			\$145,894.94
-	-			
	Appropriations, (Con	DEMNATION	1).	
Ord. No.	4972, balance of damages and			
	ment of benefits under Ordi-			
	No. 4972, entitled, "An Ordi-			
	to open and establish a Boule-			
	along parts of Independence ue, Gladstone Avenue, St. John			
A				
	ie, Scarritt Avenue and other	100 75		100 55
		128.75		128 75
street	ie, Scarritt Avenue and other	128.75		128 75
street Total exp	ue. Scarritt Avenue and other s."	128.75		
street Total expe	e. Scarritt Avenue and other 8."	128.75		128 75 \$146,023.69
Total exp Work Appropris	e. Scarritt Avenue and other s."	128.75		\$146,023.09
Total exp Work Appropris	e. Scarritt Avenue and other s."	128.75		\$146,023.69 363.60
Total exp Work Appropris	e. Scarritt Avenue and other s."	128.75		\$146,023.09
Total exp Work Appropris	e. Scarritt Avenue and other s."			\$146,023.69 363.60

H. P. LANGWORTHY, Secretary.

FISCAL YEAR 1895. BOARD OF PUBLIC WORKS DEPARTMENT.

DISBURSEMENTS.

Condemnations Total	6 6.929.95	11 594 60	14,986,48	_		_	12 310 07		12 446 63		_	¢ 128.75 4,751 16	e 128.75 e146,023.69	\$ 868.60
Expenses.	:	12 013 63				_	:	-	19 446 AR		•	_	0145,894.94	
Building Department. Total	•	5,6,49								_		824.25	66,921.45 6145,8	
Street and Alley Department.	4,978.72	7, CM2, 72	9.886.44	7 350,65	8 502 37	8,587,89	6.805 43	6,118.73	2 900 59	68 176 8	4.131.47	1,832.35	481,529.69	year 1896
Engin ering Department.	9 1,859.06	3 141 E	4 212.17	8.751.84	4,170.03	4 05.63	3,914 70	4,215.01	8 790 45	3 3 6	4.046.61	2,486.34	647,575.80	orward to fiscal
Board of	408.00	68. 89	807.14	724.29	15 806	832 74	989 81	818.96	890 73	_		419.47	99,868.50	inexpended) fo
Month, 1895.	April 15-80	Inne	A _t n	:	September	Oct. ber	November	December	Isbo.	February	March.	April 1-20.	Totals	Appropriations (unexpended) forward to fiscal year 1896

FISCAL YEAR, 1895. BOARD OF PUBLIC WORKS.

DISBURSEMENTS.

Month, 18 95 .	Pay Rolls.	Miscellan- eous Expenses.	Steam Rollers.	Abstracts. Condem- nations.	Printing and Stationery.	Totals.
April 16-30	6 256.24		e 66.55	e 72.00	68.21	e 403.00
May	512 50	6 6,40	146.95			665 85
lune	512.50	164 50	123.69	10 00	!	810.69
July	512.50	2.10	157.79	184 75	1	807.14
August	512.50	8 68	124.61	78 50		724 29
September	512.50	25.25	201.51	161 25	1	903.51
October	512.50	10.00	245.24	65.00	1	832.74
November	512.50	1.00	382 31	144.00		989.81
December	512.50	2.80	363.66		!	878.96
1896.	887.50	4.00	195.22	84 (%)		820.72
January					[·····	
February	587 50	6.15	287.77	35.00		816 42
March	537.50		142.54	55 86	' · · · · · · · · · · · · · · · · · · ·	785.90
April 1-20	858 . 85	**********	121.13	·····	·····	479.47
Totals	66,327.09	● 230.88	62,458.96	4848.36	68.21	99,868.50

FISCAL YEAR, 1895. BOARD OF PUBLIC WORKS.

MISCELLANEOUS EXPENSE.

Month, 1895.	Office Supplies. Repairs.	Telephone Rental.	Garbage, Carts and Barrels.	Boarding up Old House.	Totals.
April 16-30			<u></u> -		
May	8 5.40				8 6 40
une	90	618.00	8 145.60		161 50
uly	2.10				2 10
Angust	1.30				H 61
eptember	7 2 2	18.00			25 25
October	10.00		•		10 00
Sovember	1.(v)		l		1.00
December	2.80				2 84
1896.	1				•
angary	4.00	i		Į.	4 06
ebruary	6 15	1			6 13
March			l.:		•
April 1-20		1			
	******	ļ			
Totals	6 41.90	035.00	0 145 (H)	67.39	•230 H

FISCAL YEAR, 1895. ENGINEERING DEPARTMENT. DISBURSEMENTS.

Month, 1895.	Pay Rolls.	Horse Hire.	Miscellane- ous Expenses.	Abstracts, Grading, etc.	Printing and Stationery.	Totals.
April 16-30	• 1,773.37	6 54 26	8 21.80	8 4.50	\$5.18	e 1,859.06
May	8.406.50	105.00	252.62			3,764.12
june	8,844.77	105.00	58.15	7.00		8,509 92
july	8,718.10	105.00	812.82	81.25		4.212.17
August	8,450.80	105.00	146 29	49.75	1	8,751.84
September		105.00	37.15	148,25	!	4,170.03
October		105.00	11.35	39,00	1	4,085.65
November	3,798.90	105.00	36.55	4.25		8 944.70
December	8,987.50	105.00	57.26	115.25		4,215.01
anuary	3,540.00	105.00	34 95	49 50		3.729.45
February		105.00	24.00			8,800.90
March	3 825.90	105.00	57.89	57.82		4,046.61
April 1-20	2,418.09	68.25				2,486.34
Totals	¢44,695.26	e1,277.51	61,045.83	\$351.57	\$5.13	647,575 80

FISCAL YEAR 1895 FINGINEERING DEPARTMENT

Month, 1495.	Office Supplies.	Blue Prints.	Tools, Tools, Instrumetts	Festing Brick. Zattler	Wash Bowl	Window. Engineer to Chief	Wash Bowl Engineer to Furniture, and Slab Chief Cases &c.	Stakes, Nails, &c.	Rubber Boots and Coats.	Brick Testing Machine	Total.
April 16-30 May May July August October November November November July July July July July July July July		8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	23.8 ± 55.2 ± 55	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.10 e14.85 5.20 e15.00 12.25 5.50	8 8 90 914.85 90 9189.00 9189.	811.85 0.00 0.150.00 0.14.21 0.10.00 0.14.21 0.10.00 0.14.21 0.10.00 0.14.21 0.10.00 0.14.21 0.10.00 0.14.21 0.10.00 0.14.21 0.15.21 0	•		20 20 20 20 20 20 20 20 20 20 20 20 20 2	5.23.28.59.29.29.29.29.29.29.29.29.29.29.29.29.29
March April 1-20.	_ ; ;	82.83	81.	35			18.80	18.50	3.	8 9	24.8

	Miscella- neous Total. Expense.	10 50	1 896.00 881,529.69
	Tools, Etc.	6 105 50 12 65 12 65 89 28 89 28 650 28 6 40 10 10 14 10 15 25 15 25	\$1,076.81
	Sewers. Repairs.	46.36 35.90 284.61 284.61 437.08 151.12 144.92 150.48 472.12 472.38 485.36 485.36	\$8,948.83
Disbursements.	Streets. Sprinkling	22.00 23.00 22.0 22.0 22.0 22.0 22.0 22.	\$788.00
SNTS.	Streets. Repairs.	22. 4.0 22. 4.0 18. 48. 48 3 (8 117. 48 117. 48 88. 40 119. 0.0 119. 0.0 19. 0.0 19. 0.0	61,543.18
DISBURSEMENTS.	Cross Walks and Bridges.	\$ 283.50 \$11.90 \$70.00 \$280.22 484.43 Full 43 Full 10 87.00 82.32 \$2.32 \$2.32 \$2.32	\$8,463.62
	Fountain Repairs.	2.5.65 2.5.65 2.5.65 2.5.65 2.5.65 2.5.65 2.8.5.65 2.8.5.65 2.8.5.65	998.72
	Repairs, General.	4101.80 147.50 187.50 180.83 17.23 42.40 18.10 18.10 18.10 18.10 6.60	e795.84
	Horses and Keep.	4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$889.85
} •	Pay Rolls.	\$ 267.71 5.757.47 5.757.47 5.757.47 6.138.80 6.138.80 7.652.89 5.022.89 5.022.89 5.222.74 8.222.74	668,840.84
	Month, 1895.	April 16-30 May May June June July Augurt Coctuber December December May March March April 1-20	Totals 668,840.84

FISCAL YEAR 1895. BUILDING DEPARTMENT. DISBURSEMENTS.

Month. 1865	Pay Rolls.	Office Expenses.	Totals.
April 16-80	# 28N 67	● .50	a 289 17
May	580 93		5H1 98
une.:	566.53	1	566.53
nly	540 93	·	580,98
August	540 98		580 93
eptember	564 34		548 33
October	580.93		540.93
November	570.18		570.18
December	570.13		570 13
anuary	580.93	6.00	596 93
February	559.33		559 33
March	562.93	1	562.98
April 1-20	324.25		324.25
Totals	66,914,95	96.50	96,921.45

STATEMENT OF SPECIAL APPROPRIATIONS FOR THE FISCAL YEAR 1895.

Balance Unex- pended.		\$219.25	6219.25
Amount Charged Back.	9 8 8 8 8 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$57.58
Amount Expended.		#128.75	6 128.75
Appropriations and Balances.	\$ \$23.80 1,199.70 384.65 \$1,908.15	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$ 705.58
CONTRACTS.	Street Signs, to purchase Smoke Devices to purchase for abatement of smoke City Hall, to freeco walls, ceilings, etc Footings	Extend and establish Cullege Ave. Bernard Place to 15th St. Open and establish Liberty St., Turner & Co. & Addition to 12th St. Open and establish Liberty St., Turner & Co. & Addition to 12th St. Open and establish St. Charlotte St. to Grand Ave. Confirm verdict Main St., 24th St. to Grand Ave. Open and establish Man St., 24th St. to Grand Ave Confirm verdict Waln St., Fairmount Park Addition to Madison Ave Confirm verdict Waln St., Fairmount Park Addition to Madison Ave Open and establish Morrell Ave., Smart Ave. to Startit Ave. Open and establish Morrell Ave., Smart Ave. to Startit Ave. Open and establish Wyandotte St., Milwaukee Ave. to Startit Ave. Open and establish Wyandotte St., Milwaukee Ave. to Start St. Confirm verdict No. 4631, over and establish 24th St., Grand Ave. to Broadwar Confirm verdict No. 5432, over and establish Amie St., Downing's Resvy Longwiew to Prospect Confirm verdict No. 5437, open and establish Amie St., Downing's Resvy Longwiew to Open and establish IIIth St., South Winfield Place to Agnes Ave.	Amount forward
No. Ord.	5680 57.23 5761	2400 2412 2412 3912 3912 3912 3713 3713 3713 4972 4972 4973 5933 5573 5573 5573 5573 5573 5573 5	

Respectfully submitted,
H. P. LANGWORTHY, Secretary.

STATEMENT OF SPECIAL APPROPRIATIONS FOR THE FISCAL YEAR 1895—CONTINUED.

Balance Uner- pended.	0219.25	4.30	1.8	189.15			6363.60				6863 60
Amount Charged Back.	25.55 1 00 1 100 1 100 1 100	1.00	8	3	8 8	8.1	\$ 368.58	:		\$2,276.73	
Amount Expended.	#128.75	-					6128.75	-	\$128.75		:
Appropria- tions and Balances.	4 705.58 1 60 1 60 1 1 60 1 60 1 1 60		99:1	 81	8 8	1.00	860.93	62,769.08	:	- -	
Сомркиматіомя.	Confirm Verdict In 1th St., South Winfield Place to Agnes Ave. Confirm Verdict In 1th St., South Winfield Place to Agnes Ave. Confirm Verdict INO 5899 Sopen and establish Alley between 1sth and 1sth. Olive to Wabsah. Confirm verdict INO 6975, Cepen and establish Mainie St., Mathews & Hill's Add. to Olive St. Confirm verdict INO 6975, open and establish Bates Ave. (Safton Place to 1st.) St. Confirm verdict INO 6973, open and establish Bates Ave. (Safton Place to 1st.)	onfirm verdict No. 6239, open and establish Walrond Ave., Bernard Place to 18th St	Confirm Verdict to 6.21, open and extablish Alley between N. Louis Ave. and Union Ave. Confirm Verdict No. 6346, open, widen and extablish M. St., Laurel Ave. to Highland Ave	Contrin verdict No 5633, open and establish Duncan Ave Contrin verdict No 5631, widen Main St at leth St Contrin verdict No. 6333, open and establish Alley north of 18th St, from Bellefountaine to	Confirm verdict No. 6334, open and establish Alley between Holmes and Charlotte Sts., from 22. d to 2xid Sts.	Confirm verdict No 63%, open and establish 21th St from Locust St. to E. L. W. 15 of S. 14 St. 7, 19, R. 33.	Pootings	Total appropriations (and balances) to be accounted for	Total expenditures for the fiscal year 1993	Total amount charged back	Balance of appropriations unexpended. Over to hscal year 1996.
	Confirm	Confirm	Confirm		Confir	Confin					

BOARD OF PUBLIC WORKS, DEPARTMENT OF ENGINEERING, April 20, 1896.

To the Honorable Board of Public Works:

GENTLEMEN:

The City Engineer begs to submit the following report of this department for the fiscal year ending April 20, 1896.

COMPARATIVE STATEMENT OF PUBLIC WORKS COMPLETED DURING FISCAL YEARS 1892-3, 1893-4, 1894-5, 1895-6.

Nature.	İ	Amo	unt.	
	1892-3	1898-4	1894-5	1893-6
Paving streets	\$ 219,185,24	522,485.65	• 403,024.20	£ 439,984.3
Paving alleys	3,512.04	8,284.56	3,046.87	5.686.10
Curbing	83,185.94	36,098.03	11,458.33	15,959.9
CurbingFirst-class sidewalks	29,464.87	28,683.03	20,987.20	41.654.9
Plank sidewalks	7,342.79	8 380 95	3,528.15	3,093.7
Repairs plank sidewalks	8,891.48	11,627.81	6,743 (18)	13,635,8
Repairs first-class sidewalks and curbing.	985.06	2,588,24	894 29	2,922.7
Grading streets	16,970 40	36,919.41	11,006.38	20,949.9
Grading alleys	1,015.23	5,101 38	1,856.18	2,704.5
District sewers	20,856.08	63,633.00	81,834.41	4,631.9
Public sewers	14,973.28	1,724 49	4,999.90	
O. K. Creek sewer	27,641.89	41,839,77		
Sundry public work (appropriation)		1,655.13		
Sundry public work (voucher)	619.44	346.66	1,970.25	77 5
Cleaning and sprinkling streets		25,522 65	44,715.00	19,880.3
Bridges and viaducts	:	15,800.00		
Totals	\$ 387,009.48	810,189,76	s 597.681.69	s 570.830.8

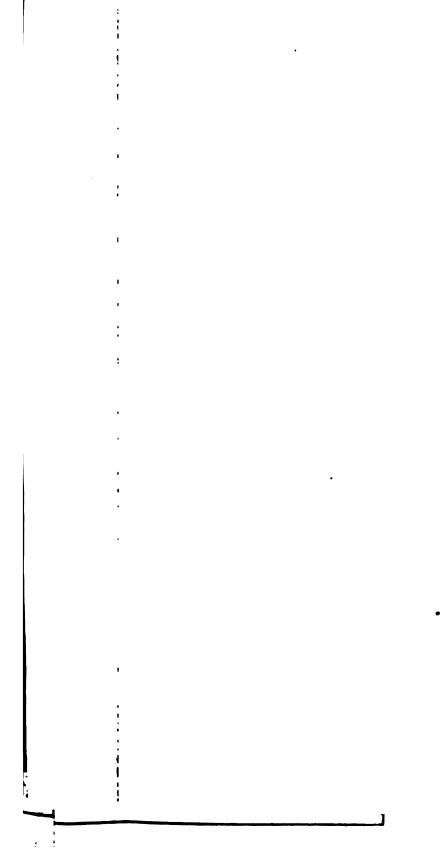
SEWERAGE.

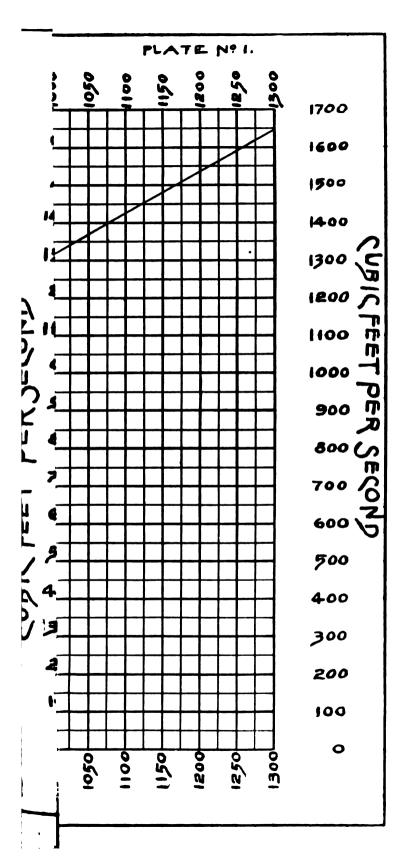
The study of the various sewerage problems mentioned in my last year's report has not been abandoned, and some new knowledge of our local needs has been obtained.

There were two rain storms during the season, which indicated quite plainly that the O. K. Creek Sewer, as built east of Grand avenue, is not too large for the maximum flow of rain water, when all the territory tributary to it is properly paved and sewered.

In the evening of June 17th, 1895, 2.20 inches of rain fell between 6:17 P. M. and 7:00 P. M., and of this amount 1.75

Y.





Willehold salety

A DESCRIPTION OF

inches fell in exactly twenty minutes, or at the rate of 5.25 inches per hour. From this rain the double arched section of the O. K. Creek Sewer at the Belt Line Crossing was slightly gorged for a short time.

When this occurred, the double-arched section was choked with from two to three feet of heavy deposit, leaving for it a theoretical discharge of only about 60 per cent. of that of the 15 foot 3 inch circular section just above it. When all the streets in this water-shed are paved and all district sewers built, there seems little doubt that a rain like the above mentioned would tax the largest portion of this large sewer to its full capacity.

From the above and other data, obtained at different times, the diagram (Plate I.) has been prepared, which gives at a glance the amount of storm water to be provided for in sewering a district of any given area from one to thirteen hundred acres.

After determining the required capacity of a sewer at any point and the inclination or gradient to which it can be laid, the next step in the design is to compute the size of sewer which will give the required discharge.

This computation is very greatly facilitated by the use of the other diagram (Plate II.), which has been constructed and put in use during the past winter. It is submitted herewith, that it may be reproduced in more convenient size and permanently preserved for future use.

A beginning has been made on the intercepting system for the disposal of the sewage from the O. K. Creek water-shed; it follows substantially the general design which was outlined in my report of last year. At the beginning of the fiscal year the sum of \$40,000.00 was apportioned, from the general revenue collections to be made during the year, for doing a portion of the work, extending easterly from a temporary outlet in Turkey Creek, at the intersection of Twenty-fifth street and Fairmount Avenue.

Of course, only a portion of this amount became available for use during the season. The letting of a contract for any portion of it was further delayed by the failure of the Common Council to agree as to the section to be done first. On the 26th of March last, a contract was confirmed for constructing that portion between the Turkey Creek outlet and Jefferson street, and the work on it has been commenced. The price at which this section was let indicated very clearly that the preliminary estimates, made a year ago, were ample for all contingences that may be fairly anticipated in connection with the interceptor and outfall sewers.

The map herewith submitted (Plate III.) shows the location and profile of that portion between Turkey Creek and Wyandotte street, with alternate studies for the section between Wyandotte and Walnut streets. It also shows the location and profile for the O. K. Creek branch of the low level system, mentioned in my former report.

When the construction of this becomes necessary it can probably be built as a "joint district sewer."

At the beginning of the fiscal year the sum of \$8,000.00 was apportioned for the construction of an outlet sewer, beyond the Eastern City Limits, extending from the intersection of Fourteenth street and Cleveland avenue to the intersection of Ninth street and Fairview avenue. The route of this sewer is in part across private property, but the amount apportioned was intended to cover only the actual cost of the sewer, it being assumed that the owners of private lands would willingly give the right of way for the sewer in consideration of the sanitary benefits to be obtained from the free right to the use of same through house and cesspool connections.

It was not thought advisable to begin this work until the full length could be provided for in a single contract; therefore, nothing could be done, until the fund was practically all collected and available near the end of the fiscal year.

In the meantime it was found that some property owners were unwilling to give right of way as was expected and that probably an additional sum would need to be provided from some source to purchase the same. For these reasons the construction of this sewer is not yet fully provided for.

Plans were prepared for a joint intercepting sewer to serve the districts which have been established east of Prospect avenue and between Seventh street and Howard street. This sewer will collect the sewage from the different District sewers and deliver it to the above mentioned outlet sewer.

The ordinance for this joint sewer was approved by the Board, passed the Lower House of the Common Council, but died in Committee of the Upper House with the old Council. It is desirable that the construction of these two sewers be provided for as early as possible, so that the districts in greatest need of them can be provided with local sewers.

Bridging.

No new bridges were built during the year, but general plans and estimates were prepared for a Viaduct called the Allen avenue or Twenty-third street Viaduct, which is intended to carry the street traffic between Allen avenue and Wyoming street over the tracks of the Kansas City, Ft. Scott & Memphis, the Atchison, Topeka & Santa Fe and the Kansas City, St. Joseph & Council Bluffs R. R. Companies. The cost of the structure was proposed to be paid by the railroads and other corporations to be benefited, but leaving the care and maintenance of the structure after completion, to be borne by the City. This is a much needed improvement and it is to be hoped that it will be carried to an early completion.

BRICK PAVEMENT.

During the winter of 1894-5, letters of inquiry were sent to the Engineers of some twenty different cities with a view to determining the best material for and method of filling the joints between the bricks in brick pavement. A few used only clean sand and fourteen used in either brick or stone block pavements, or both, a paving cement consisting of the residum from the distillation of coal tar either with or without the addition of a small portion of asphaltum, and four reported the

use of either a hydraulic cement filling applied in the form of a very thin grouting, or the so-called "Murphy Grout Filler." The Engineer of Buffalo, N. Y., recommended this so highly that I became convinced that it should be given a trial here. I therefore specified it for Hickory street, St. Louis avenue to Fifteenth street; Thirteenth street, Hickory to Liberty and Mulberry streets; Ninth street to Union avenue. Hickory street has been subjected to perhaps as heavy traffic as any street in the City since its completion last August, and yet the edges of the bricks are only slightly chipped.

Main street from Twelfth street to Nineteenth street was re-paved last fall, using for the greater part the old bricks put down in the summer of 1893, and which had become badly chipped on the surface edges. These bricks were turned over and the joints filled with the "Murphy Grout Filler." bricks were not as thoroughly cleaned as they should have been to allow the grouting to properly adhere to them. reason, only the portion of this street which was re-paved with new brick should be taken as a sample of the benefits obtained from the "Murphy Grout Filler," and that portion promises (judging from the short time it has been in use) very satisfac-The physical tests of paving brick have been tory results. somewhat irregular during the latter part of the year, owing to the burning of the foundry containing the rattler which we were using for the abrasion or impact test, and the others which were available have not been adapted as well to the work, being somewhat large and less perfect in construction and operation; it has been necessary to make some allowances accordingly.

Plans have now been prepared for a new rattler, to be owned by the City, and operated in the basement of the City Hall, thus placing it under the control of the department, by which more definite and satisfactory tests may be made.

ASPHALT PAVEMENT.

There were laid during the year 129,612.78 yards of street asphalt pavement, at a total cost of \$329,791.36.

The price per square yard was substantially the same as for that during the fiscal year 1894. The former standard of quality has been fully maintained, but the conviction seems to be growing, and with stronger grounds to support it, that the same standard could and should be furnished at a considerably reduced price; this sentiment is commonly expressed by a demand for "competition in asphalt."

Possibly competition is not the only method by which a reduction in price can be obtained, but it is doubtless the most natural one, and, if properly conducted, it will be the most satisfactory to the public. Justice to taxpayers clearly dictates that it be encouraged.

MACADAM PAVEMENT.

Only 55,739.20 yards of macadam were completed during the year, at a cost of \$49,814.42, but about 102,000 yards were under contract at the close of the year, the estimated cost of which is about \$65,000.00.

The past winter has been especially unfavorable for this class of improvements, on account of the frequent freezing and thawing of the surface and the amount of clay and mud brought on by wagons from unpaved streets.

The Southwest boulevard, from Main street to Broadway, has been especially unfortunate from these causes and the heavy traffic which it has to carry. The petition under which this improvement was ordered provided that the wearing course of Carter county granite should be crushed to a maximum size of one and one-half $(1\frac{1}{2})$ inches. The size proved too small to give the best results under heavy wheel loads, and the street is now badly in need of repairs.

SIDEWALKS.

The condition of plank sidewalks has gradually grown to be the cause of much concern and anxiety. It is estimated, from the best available records, that the City now contains about 280 miles of plank walks, which have all been constructed since 1882. Of this amount, 244 miles were built from 1886 to 1891, both inclusive, or an average of over 40 miles per annum for a period of six years. Much of the larger portion of the plank walks were comparatively new when the Board of Public Works, in 1890, organized the division of Curbing and Sidewalks, as it now exists.

As these walks have grown older, the amount of necessary repair work has gradually increased, until now it is impossible for the force which has been regularly detailed for its supervision to properly inspect all walks in the different districts at least once every three months, as provided by Ordinance No. 1472, approved April 19th, 1890, and, at the same time, inspect the construction of new walks of all kinds, and curbing. I would therefore recommend that provision be made for increasing this force during the season of the year best adapted to doing sidewalk work.

The "hard times" which have depressed property owners for the past three years have led this department, with the advice of the "Board," to accept very cheap and temporary repairs, especially when made by the lot owner himself. The result of this temporary work is now apparent in the increased dilapidation in all directions, and a strong sentiment seems to have been created in favor of doing away with wooden sidewalks entirely. This, of course, can not be economically accomplished until all streets are graded and some provision made for protecting those on steep inclines from the wash of heavy rain storms; therefore many wooden walks must be allowed for several years to come. But, where allowed, more carefully selected material and more substantial construction than have usually been employed would be found economical, both to the City and property owners.

A very durable walk is obtained by the use of common vitrified paving brick, set on edge in the same manner as employed for roadway pavements, but placed on a sub-foundation of cin-

ders, like other walks, instead of the more expensive concrete base.

When bricks are laid flat-wise, as is more commonly done, they are more apt to work loose than when set on edge, but the first cost is from two to four cents per square foot less.

Granitoid, or artificial stone, is now so well made as to compare very favorably with any moderate priced natural stone, and is each year gaining in favor for curbing and gutter work. However, many people still do, and doubtless will continue to, retain a strong preference for good natural stone for all such work.

The ordinance (known as the Stoner ordinance), entitled "An ordinance to promote uniformity in the material and location of first-class sidewalks," has been in force nearly a year now, and, while it has made some additional work for the department, both in the field and office, the appearance of streets, where walks have been built in accordance with it, is much improved over those where every variety of first-class material was allowed in one and the same block.

DEPARTMENT OF TESTS.

The object of this department has been to aid in selecting the best available material for use in public works.

1st. —By determining from careful experimental tests what standard of strength, durability and other essential qualities could reasonably be maintained in the selection of materials; and by embodying such standard in the specifications for work to be done.

2nd.—By testing all material offered and rejecting such as fell below the standard.

CEMENT TESTS.

At the beginning of the fiscal year, the Cement Room was supplied with a Riehle Bros. 1,000-pound cement testing machine and the usual complement of moulds, sieves, tanks and other appliances.

The engineer of one of the field parties was put in charge, and an order made by the City Engineer that all cement used

on public work must first be tested. All tests required were of neat cement.

During the year, 300 samples have been tested, involving the making of over 4,000 briquettes. Samples are taken from each car-load offered, and, if the tests prove satisfactory, the cement is accepted.

As a result of its system of tests, the City has now first choice of the cement on sale in this market.

A second practical result is, the manufacturers of the brands of natural cement commonly used in this locality are attempting, by the introduction of improved machinery and processes, to meet the City's requirements with all their product.

An exact record is kept of all tests made, giving brand, strength, fineness and activity of the cement. This record is commonly consulted by users of cement in the city. See Table No. V.

ARTIFICIAL STONE.

A series of tests were made during the year, to determine the transverse strength of artificial stone, as used in sidewalks and curbing, and was extended to include the effects of size of aggregate and the adhesion of cements to different materials.

Blocks of the size of a paving brick were made in a wooden mould 8 x 3.94 x 2.56 inches. These blocks were allowed to harden in damp sand for forty-five (45) days, and were then broken flat-wise with a span of 7 inches. About fifty (50) blocks were made. A few will illustrate the kind of information to be derived from the tests. See I., II., III. and IV.

Dyckerhoff Portland cement was used in the proportion of one part cement to three of the aggregate, by measure; 23 oz. of cement and from $7\frac{1}{2}$ oz. to 10 oz. of water went to the making of each block.

The aggregate varied in size from fragments 3 inch in greatest dimension to dust that would pass a No. 100 sieve.

TABLE 1.

TRANSVERSE STRENGTH OF ARTIFICIAL STONE.

ol Blo	Material.	Proportions of Ingredients.	ions of lients.	Dimensions of	·ued	Center Breaking	eysU ni	Remarks.
ON	_	Akkregate. Cement.	Cement.		ls	Load.	y Ke	
- ::		-	-	vin.x3.94in.x2.56in. 7 in	 E.	393 lb	2	45 Clean and medium sharp
ā.		- -	-		:	133	15	Clean and very smooth.
٤.		=	-		:	966	5	Clean and free from dust.
_ _	Limest ne	- -	_		:	1,325	ž	Block weakened by voids.
::	15 + Joplin flint	**	-		:	1,545	2	Clean and fice from dust.
£	Slak	**	-		:	1.540	7	: : : :
:	Catabite	n	-		:	1,537	£3	: : : :
::	Bric	**	-		:	1,805	ç	: : : :
7	Neat Cement	:	-		:	2,000	2	Dyckerhoff Portland.

TABLE II.

AGGREGATE UPON STRENGTH OF ARTIFICIAL STONE. EFFECT OF SIZE OF

Remarks.		15 No. 5 Crushed Brick, [1-7fn. 10 3-410. in greatest dimension.] 15 No. 3 (1-4fn. 10 1-4fn. in) 16 No. 3 (1-4fn. 10 1-4fn. in) 15 No. 1 (1-4fn. 10 1-4fn. in) 15 No. 1 (Between Nos. 3, 74 and 20 Sieves.) 15 1 part of No. 1; 2 of No. 2 of No. 3, 3 of No. 4; 3 of No. 5, 15 part of No. 3; 2 of No. 4, 3 of No. 5. Bad break. 16 1 part of No. 4, 2 of No. 5, 8 of No. 5, 8 and break.
syaC ni	VKe	22222222
Center Breaking		960 1b 1,110 1,210 1,245 1,045 1,835 1,835 1,635 1,1165 (?)
- ued	s	1
Dimensions of an islack.		via x3 vtin x2.36in. 7 in
oportions of Ingredients.	Cement.	
Proportions of Ingredients.	Akkregate Cement.	
Material.		Crushed Vit. Brok.
Abolff 10	·o _N	<u> </u>

EFFECT OF DUST UPON STRENGTH OF ARTIFICIAL STONE. TABLE III.

M	Proport Ingred	Proportions of Ingredients.	Dimensions of	psn.	Center	sárq u	Remarks
	Aggregate. Cement	Cement		s	Load.	Age	
Sin.x3.94in.x2.56in.	99999		8in.x3.94in.x2.56in.7 in	:	1,070 lb 1,150 1,227 1,587 1,625 1,660	**************************************	Containing stone dust. Freed from dust on No. 20 Sieve. Containing stone dust. Freed from dust on No. 20 Sieve. Containing 8½ ox finer than No. 20 Sieve. Freed from dust on No. 20 Sieve.

TABLE IV.

EXPERIMENT WITH RANSON PATENT.

Material.	Proport Ingred	Proportions of Ingredients.	Dimensions of Block.	.usq	Center	n Days	Remarks
	Aggregate. Cement.	Cement.		s	Load.	i aga	
ᇃ :	so so		Ä	ü:	595 1b	5 5	Same as No. 37 except has two lin. twisted steel
	s: so			::	1,625 2,480	2 2	Same as No. 24 except has two Lin. twisted steel

	0 1	1 Day.	7 Days.	178.	28 Days.	ays.	3 Months.	orbs.	6 Months.	aths.	Yer	Activity.	Fine	Fineness.
Brand.	Strength.	Samples.	Strength.	Samples.	Strength.	Samples.	Strength.	Samples.	Strength.	Samples.	.198 fabiut	Hard Set.	No. 50 Sieve.	No. 100 Sieve.
		i -									h. moin	<u>م</u> ا	<u> </u>	per cen
Ft. Scott	9	£.	₹	10	262	ಷ :	22.5	•	969	-	3		8	: :
•	51.5	:	œ £	:	ž	92	243	_	888	973	8			:
[.tica	46.5	~	2	•	268	••	818	-	504	_	8	-		
	ā	2	188	2	Ξ	2	:		9	90	8	_		:
Dyckerhoff	251	•	96	'n	919	ю.	:		182	"	1 01	9	:	6.88
	546	•	523	-0	503	•	22	-	139	-	5	-	:	8
	219	•	193	•	633	_		:	į.	_	3	-	:	9.6
	226	•	**	•	261	+	:				81	•	•	89.9
	176	-	363	_	135	-	-		516	-	8	_		95.6
	355	~	828	•	50,3	~	:	-	296	_	R			86.7
	13¥	-	994	_	949	_	:		147	_	18			8.18
	262	-	97	-			-				77 87	•	:	87.9
	3:1	~	989	~	213	-		:	:		65.55			88.7
	203	-	38	-	303				3	-	=	R	-	æ
	213	_	\$03	_	445	-			ž	_	3		:	9 .
	ī	-	71	-	535	-		-	617	_	2			£:
Hemmoor	9:1	_	£.4	_	643	-	:		-		7 0	-	:	8
Porta German.	8 12	~	77	~	ž	*	:		:	:::::::::::::::::::::::::::::::::::::::	15.3	-	3	82.5
	9	•	444	•	•	•					:	•		

GEO. JENKINS.

STREET PAVING CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 20, 1896.

ASPHALT.

Street.	From.	To.	Former Pave- ment.	Thick- ness Inches.	Foundation	ation.	Lineal Feet.	Square Yards.	Cost per Sq Yd	Cost.	No. of Bills.
McGee StreetEleventh St Pendleton Ave W. line Ga	Eleventh St	St Twelfth St	None.	ž	11'sin bituminous conc.	4in. hydraulic conc.	877.70	1,677.80	F2.50	4,194.50	2
	Ave., north	Ave. south	Cedar Blk.	-1	12, in hituminous conc.	4in hydraulic conc	914 80	288 20	0. 6	1 830 95	•
Seventh St	. Walnut St	. E. line Grand Ave.	Cedar Blk.			Sin. hydraulic	317.00	1.20× 40	2 6	S 383 32	4 0
Wabash Ave	. Eighth St	Ninth St.	None.	11	11/2 in. bituminous conc.	4in	353.30	07 628	92	2 19× 50	. 5
Pendleton Ave	. Gartield Ave	. 400 ft w Garfi'ld av.	Cedar Blk.	7.		4in, hydraulic conc.	410.00	1.334.00	20	8.335.00	: :
Oak Street	Twelfth St		Cedar Blk.	7.	14 in. bituminous conc.	4in. hydraulic conc	1.325 70	5,146,70	20	12.866.75	- - -
Garfield Ave	Independence Av	•	Cedar Blk.	. 			2,578.80	8,364.30	2.50	20,910.75	102
Eighth St.	Wyandotte St	Ξ.	Cedar Blk.	; »	2 in bituminous conc.	-	174.20	437.60	2.65	1,159.64	77
Englith St.	Delaware St	. Wyandotte St	Cedar Blk.	∾:	-	Ξ.	189.60	1,116.30	2.65	8,753.20	±
Thirtman C.	Delaward	West binger	Cedar Bik.		Dituminous		1,155.30	4.917.80	8	13,769.84	32
Weardotte St	-	Twelfth St	Cedar Bik		11'gin bituminous conc		1.558.00	5,752.60	9 8	14,381.50	88
Broadway	-	Tenth St	Cedar Bik	٠.	11.21n. bituminous conc.	old concrete.	1,26.20	5,357,60	50.0	82.100,CI	9
Central St		Seventeenth St	None	. 2			618.60	500.50	2 5	19,010,03	- 6
Tracy Ave		. Fifteenth St	Cedar Blk.	-		ij	1.824.50	4.483.80	200	11.209.50	371
Lexington Ave		Wabash Ave	None.	63		7	1,159.40	8,445.30	2.50	8,613.25	33
Ninth St.	Forest Ave	Lydia Ave	Cedar Bik.	-		Ę.	892.30	3,859.30	5.50	я, 398. 25	35
Jenerson St.			Cedar Bik.			<u>.</u>	521 30	1.336 60	3.30	3,341.50	26
Central Cr	Library Co	Circonit C	None.			<u>.</u>	288.40	1,531,40	8	8,829.50	₹,
Central St	Sixth St	Ninth St	Cedar Blk		1. rin bituminous conc.	tin concrete.	2,139,00	0 4 2 3 40 0 4 2 3 40	2 5	05,650,25	22.5
Sixteenth St.	Main St	Grand Ave	Cedar Blk.	-		5	133	1 685 50	2 5	1 919 35	ć z
Jefferson St	Tenth St	. Eleventh St	Cedar Blk.			ij	430.60	1.562.50	20	3,906,25	ž
Charlotte St	Twelfth St	Fifteenth St	Cedar Blk.	<u>.</u>	11gin. bituminous conc.	Ĭ.	1,316.00	4,253.40	2.50	10,633,50	83
Eleventh St	Broadway	Summit St.	Cedar Blk.	3			1,301.00	5, 156, 90	2.50	12,892.25	31
Carfold And	Main Street	Eighth Co	Cedar Bik.	- :		o pio	255.20	1.068.10	2.50	2,670.25	-
Flavorth Co	Baltimore Ave	Broadman	Coder till	<u>.</u>		= 7	291.80	118.40	200	1,791.00	15
Trace Ave	Fifteenth St	Coverseent). Co	Coder Bik	<u> </u>	17 in himmingus conc.	old concrete.	1,102.30	200	8	11,869,45	2 ;
Troost Ave	Twelfth St	Nineteenth St	Coder Bik	. 2		old concrete.	00000	07.621.70	6.0	62.450.00	5
Troost Ave	N. line Twenty-	· Center line Thirty-				old conclude.		9, 939, 90	96.3	64,089.69	2
. :	_	first St	None.	11,	11/2in. bituminous conc.		2,067.10	8,766.90	2.50	21,917.25	98
Harrison St	_	Tenth St	Cedar Bik.	7.		4in.	784.70	2,881.80	200	7,204.50	
Forest Ave	_	Fifteenth St	Cedar Bik.	7		Ę.	1,867.70	5,625,80	2.30	14,064.50	96
Jefferson St	Sixteenth St	Eighteenth St	Cedar Bik.	-		Ę.	1,572.00	5.071.90	2.50	12,679.75	76
wyandotte	weitin st	Fourteenth St	Cedar Bik.	-	11,3in. bituminous conc.	tin. concrete.	876.30	3,579.90	2.50	8,949.75	23
		35 Contracts.	6 57-	6 57-100 miles	85		31, 717, 23	120.612.78	İ	6829 791 86	1.680
									_	20.10.10.00	

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No. of Bills.	2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 m	No. of Bills.	ឌ	ដ
Cost.	8 3.44 9 11.74 9 12.17 9 12.17 2 620 81 1 453 62 1 453 63 1 1 453 63 1 1 85 72 2 2 2 40 72 3 779 66	9 14, 719, 25	Cost.	1,973,44	• 1,973 44
Cost per Sq. Yd	1.00 (·	Cost per Sq. Yd	2	• 1.12
Square Vards.	25.286 50 25.240 667.24 667.24 667.24 15.42.30 17.94.63 11.142.60 11.205.20 11.305.20 11.505.20	35.1%6 40	Square Yards.	1,762.00	1,762 00
l incal Feet.	712 40 2,796 50 130 000 2,796 50 150 000 252 40 252 40 252 50 252 50 1738 60 1,738 60 1,738 60 139 70 1,084 60 144,70 1,338 70 1,	10 157.70 of	Feet	600 30 1	600 50 1
Foundation.	6 in concrete. 2 in sand. Old concrete. 2 in sand 6 in concrete. 2 in sand 6 in concrete. 2 in sand 6 in concrete. 2 in sand Old concrete. 2 in sand 6 in concrete, 2 in sand 6 in concrete. 2 in sand 7 in sand, 6 in concrete 7 in sand, 6 in concrete 7 in sand, 6 in concrete 7 in sand, 6 in concrete 7 in sand, 6 in concrete 8 in concrete. 2 in sand 9 in concrete. 2 in sand 6 in concrete. 2 in sand	CEDAR BLOCKS.	Foundation.	Cedar rilk vin. old concrete, 2in sand. 6	·
Pave Brick, Brick,	Ced Bk Sand None Sand None Sand Ced Bk Port Cen Ced Bk Sand Ced Bk Port Cen Ced Bk Sand Ced Bk Sand None Stouting None Sand Ced Bk Sand Ced Bk Sand Ced Bk Sand Ced Bk Sand Ced Bk Sand	. ' •	Pormer Pavcinent.	dar rilk vin. old	;
For Par Inc		1 92-100 miles	O. T.	Walnut St Ce	11-100 miles.
From	Broadway. Main St. Wa-bungton St. Pennestyania Av. Twelth St. Eighth St. Tracy Ave. Ninth St. Ninth St. St. St. St. St. St. St. St. St. St.	13 Contracts. b) owners	From	Delaware St	One contract
Street.	Seventh St	13 Contract of Contracts - Contracts	Street	Missouri Ave Delaware St	

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	No. of Bills.	8	9	25	2	8		395		No of Bills.	6 € € €	£5
	Cost.	625,228.84	2,487.40	3,501.45	5,277.28	4,528.60	8,840.90	649,814.42 395		Cost.	64,227.40 2,686.85 2,722.08	69,635.83
	Cost per Sq. Yd.	12.19	841%	\$ ₁ 06	\$405	62	3			Cost per Sq. Yd.	82.10 .68 2.77	
	Square Yards.	20,328.70	2,884.50	3,869.00	7,538.90	7,804.20	2,433.00 13,813.90	12,268.99 55,739 20		Square Yards.	4,317.59 969.80 982.70	6,885.00
	Lineal Feet.	4,450.80	712.40	936.19	1,946.00	1,790.60	2,433.00	12, 268.99		Lineal Feet.	923.60 279.10 285.00	1,487.70
	Specifications.	Independence Av West line Wood East line of Wal- Ced. Bk 31s in. crushed grantte, bordered with rond Ave.	limestone, 9 in. limestone.		any Falls limestone, 614 in. native limestone, 614 in. native Twenty-fourth St S. W. Boulevard. Fairmount Ave Ced. Bk 32 in. gravel. brick margin: 615 in. Berh.	74	limestone		STONE BLOCKS.	Specifications.	Sto. Bk Re-construct and repair	
1	Former Pave: ment.	Ced. Bk	adam		Ced. Bk	240 ft.	Blocks	miles.		Former Pave- ment.	Sto. Bk Ced. Bk Ced. Bk	iles.
	ţ	East line of Wal-	Broadway	Twenty-first St S. W. Boulevard. West Prospect Pl.	Fairmount Ave	S. W. Boulevard. East line broad. Easterly line Lot 200 ft.	Add. produced.	2 32-100 miles.		То	Bluff St	23-100 miles.
	From	West line Wood-	Inifd St Wyandotte St Broadway	S. W. Boulevard.	S. W. Boulevard.	East line Eroad.	way	6 Contracts.		From	Broadway Main St	3 Contracts.
	Street.	Independence Av	I nird St	Twenty-first St	Twenty-fourth St	S. W. Boulevard.				Street.	Fith St Seventh St	

ALLEY PAVING CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 20, 1896.

BRICK.

	From.	J.	Foundation.	Lineal Feet.	Square Yards.	Cost Per Sq. Yd.	Cost.	No. Bills.
roost Ave. and Forest Ave consylvania Ave. and Jofferson St enth St. and Eleventh St.	Tenth St. Eleventh St. Santa Fe St.	Eleventh St. Twelfth St. Mulberry St.	Eleventh St	385.00 272.40 399.50	641.30 856.80 620.10	1.38 1.63 1.48%	985.27 541.58 623.95	282
St. Louis Ave. and Union Ave. Central St. St. Louis Ave. and Union Ave. Santa Pe St. Wall Ye and Wyandotte St Seventh St. Locust St. and Cherry St Etiglish St.	Santa Pe St. Seventh St. Eighth St	Midway bet. Cen. Trail and May Sts. 6in. concrete, 3in. Mulberry St. 6in. concrete, 3in. Fighth St. 6in. concrete, 3in. Ninth St. 6in. concrete, 3in.	Midway bet. Cen: rral and May Sts. fin. concrete. Jin. sand Mulberry St. fin. concrete. Jin. sand Eighth St. fin. concrete. Jin. sand Ninth St. fin. concrete. Jin. sand	150.80 405.60 324.30 287.90	262.10 895.80 624.50 325.00	1.59 1.50 1.50 1.50	416.74 629.32 936.75 515.18	=322
Seven contracts.		42-100 miles.		2,225.50	3,025.80		9 4.588.74	162
	! !	STONE	STONE BLOCKS.					
Between.	From.		Foundation.	Lineal Feet.	Square Yards.	Cost per Sq. Yd.	Cost.	No. of Bills.
Immediately S. of Thirteenth St	Hickory St	A point 244 ft. cast (of Hickory St	A point 244 ft. east Granite Blks. 6in.concrete, of Hickory St sand	235.00	35.48	8 2.78%	• 2.78% • 1,097.29	
One contract.	1	4-100 miles	ı	235.00	394.00	0 2.7819	6 2.78 ¹ g 6 1,097.29	=

RECAPITULATION OF STREET PAVING CONSTRUCTED DURING FISCAL YEAR Ending April 20, 1896.

	No. of Contracts	Lineal Feet.	Miles.	Square Yards.	Cost.	Average Cost per Sq. Yard.	No. of Bills.
Trinidad Asphalt Brick Macadam Stone Blocks Cedar Blocks	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	34,717,72 10,157,70 12,268,99 1,487,70		129, 612, 78 35, 486, 40 55, 739, 20 6, 885, 00 1, 762, 00	9329, 791.36 48, 719.25 49, 814.42 9, 635.83 1, 973.44	82.514 1.307 .894 1.40	
	28	59,232.64	11.21	227,485.38	227,485.38 4439,934.30		2,485

RECAPITULATION OF ALLEY PAVING CONSTRUCTED DURING FISCAL YEAR Ending April 20, 1896.

No. of Bills.	152 21	173
Average Cost per Sq. Yd.	\$1.516 2.78!g	
Cost.	94,588.74 1,097.29	€5,686.03
Miles. Square Yards.	3 025.80 394.00	8,419.80
Miles.	0.42	0.46
No. of Lineal Feet.	2,225.50	2,460.50
No. of Contracts	t	*
Material Used.	Brick Stone Blocks	

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		Material Used.			Lineal Feet.	Feet.	Miles.						
Asphalt Macadam Macadam Signification Blocks. Virrihed Brick Cedar Blocks.	Blocks				145,158 45 67,150,19 11,880,10 77,175,00 150,544,05	88888 8888	21.48 24.61 24.61		dar bloc	Cedar blocks taken up 45,009 lin. ft., 8,32 miles.	45,009 lin	ft., 8.52	miles
				1	1		£5.68	' — I	İ		 - -		
	BINC	CURBING CONSTRUCTED DURING FISCAL YEAR ENDING	CTED DU	RIN	G FIS	CAL	YEAR	END	ING	APRIL 20, 1896.	, 20, 1	896.	
i İi				'sa 'sa	Constructed by Owners.	ted by	Owners.	Constri	Constructed by Public Contract.	. Public	Total Constructed	structed.	Z
Street	Side.	From	T.	Thicki	Lineal Feet.	Cost Per Foot	Cost.	Lineal Feet.	Cost Foot	Cost.	Lineal Feet.	Cost.	Bills
Reconstruct	Both	Both Independence Av Pendleton Ave	Pendleton Ave		00.00	20°	8.8	61.30	150	\$ 50 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$ 20 \$ 2	\$3,738.60	506.47	8
Wahash Ave	Both		Ninth St	•	9	200	370.00	161.70	_	4		334.72	es .
Wabash Ave	Both Both	Sixth St.	Eighth St	60 10	577.00	61c	25 25 25 25 25 34 25 34	95 60 565 (90	019 13 0	25.25	1,142.00	503.57	~ 2
Twentieth St	Both	Grand Ave	McGeo St.	_ 	150.00	9	90.09	98.40	•••	161.70	395.60	223.64	•
Twenty-first St	Both.	S. W. Boulevard, W. Prospect Pl	W. Prospect Pl		1,100.00	4 5c	493.00	6.30		50.	8.874.70	1,623.62	%
Campbell St		30	Nineteenth St.	5 0	1,150 00	120	517.50	1,361.10		6.14.9		1,122.42	‡ :
Twenty fourth St Both.	80 E	Trace Ave.	Lydia Ave.		8,000 8,000 8,000	2 2 2 3	203,20,	366 60	53C	194 29	386.	397.79	÷ ~
Tracy Ave	Both		Seventeenth St.	•	1,200.00	30c	000,009	200		743.33	1,606.60	1,383.33	2
Garreld Ave	Both	Seventh St	Elghth St.	•	95.00	34)C	8	33.20	7	262.71		810 21	2
Troot Ave	5	Twenty-eighth St		.n.	3,640.00	Ú,	5.63 5.63 5.63 5.63 5.63 5.63 5.63 5.63	345.30		173.47	± 025.30	1,993.47	9 5
Living Ave		1	Twenty-fifth St.		2, 2(10) (N)) (1)	91 9	366.20	12,20	155.63		1,101.63	•
Jefferson St	Roth Foth	Seventeenth St	Eighteenth St.,	• •	1,800 to	. 24.c.	1,170 GO	2,255.40) 10c /	1,066 14		1,170.00	; F
16 Contracts	i	6 67-100 miles.			18,117.00	i	08,275.46 17,185.80	17, 135, 80,		87,683.49		35,252.RU 815,958.95	125

FIRST-CLASS SIDEWALKS CONSTRUCTED DURING FISCAL YEAR ENDING AP. 20, 1896.

NATURAL STONE.

.elli8	No. of			- 6	90 00	_	∞ ι-	<u> </u>	:::	_ % _
sted.	Amonnt	6 619.00 890.86	250.81 322.84	906.30	516.17 415.75	572.04	546.80 1,659.79	168.00 660 00	140.00 520.00 340.00	69, 126. 10
Total Constructed	Square Feet.	8,120.00 4,587.20	1,415.50	4,810.30	2,724.40	2,724.00	8,917.50	8,300.00	760.00 2,600.00 1,700.00	46,684.80
Tota	Lineal Feet.	624.00 756.20	141.55	454.83 801.71	454.06 366.66	454.00	455.66	140.00 550.00	116.66 433.33 283.33	1
Owners.	Amount.	574.00	220.00	452.20	406.60	535.50	1,221.00	168.00	140.00 520.00 340.00	e7,239.20 7,897.46
perty	Cost per F	C15 20 20	000	100	61	12	20 181	20 20	888	
Constructed by Public Contract. Constructed by Property Owners.	Square Feet.	2,870.00 3,708.00	812.00 1,100.00	2,380.00	2,140.00	2,550.00	2,140.00 6,600.00	840.00 3,300.00	2,600.00 1,700.00	36,610.00
Construc	Lineal Feet	674.00 618.00	31.20	396.66	356.66 208.33	425.00	856.66 825.00	140.00 550.00	116.66 438.33 283.33	5,901.49
Contract.	Amount.	45.00 149.26	188.41	454.10	109.57	36.54	118.80 238,79			61,886.90 5,901.49
plic	Cost Per Ft.	See.	200	18%	7681 7681	21	1856			
icted by Pi	Square Feet.	250.00 829.20	1,108.50		584.40 950.70	171.00	2,347.50			1,515.97 10,074.80
Constru	Lineal	50.00 138.20	110.85 85.70	405.05	97.40	29.00	99.00			1,515.97
q	Wid	10.00	2 9	9 9		9	e ∞	99		
	To	20th St	Wy'd'est. Jeffers'n St	Trb St	15th St	15th St.	W'dl'd Ave.	Summit St Charl'te St.	Grand Ave 16th St Holmes St.	1.40 miles.
	From	18th St	Penn. Ave.	15th St	West, 16th St	14th St	Holmes St. W'dl'd A	Cocust St. Charlte St. Crand Avy Allay F. of	15th St 16th St	
	Side.	West. Both.	Sou.	West Both.	West.	East.	Both.	Both.	West Sou.	16 contracts
	Street,	Jeffers'n St West, 18th St McGee St., Both, 11th St	12th St.	Holmes St.	Cherry St.		18th St	14th St Both.	Cherry St West 18th St	16 col

FIRST-CLASS SIDEWALKS CONSTRUCTED DURING FISCAL YEAR ENDING AP. 20, 1896. ARTIFICIAL STONE AND HEXAGON BLOCKS.

Amount Pect. Pect. 1,101.60 1,277.30 331.20 1444.23 1,657.00 267.34 5,670.00 267.34 5,670.00 2773.00 690.00 2773.00 835.40 334.50	Square Amount, Officer, Square Amount, Officer, Offi
	2, 663.00 ± 1.2,
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	11.253 6 88.871.20 1.677.20 1.677.20 2.177.00 6.41.00 00 2.177.00 6.41.00 00 6.41.00 00 6.41.00 00 6.41.00 00 6.41.00 00
•	38 871 20 38 871 00 1,677 00 2,127 00 2,127 00 1,595 60 4,19 00 4,19
	38,871.60 1,677.90 2,127.90 2,127.90 2,310.90 4,94.90 4,94.90
	1,677.90 2,127.90 2,127.90 2,310.90 1,595.60 4,19.60
27.8 27.7 27.7 27.7 28.5 29.0 29.0 27.7 27.7 27.7 27.7 27.7 27.7 27.7 27	2, 310.00 2, 127.00 2, 310.00 1, 595.60 6, 419.60
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8 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2,310.00 1,595.60 6,754.00
27. 265. 000 459. 000 1,074. 000 1,436.	1.595.60 2.754.00 6.419.90
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1,074 40 1,436 00 250	06 611 9
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FIRST-CLASS SIDEWALKS CONSTRUCTED DURING FISCAL YEAR ENDING APL. 20, 1896.

BRICK.

.silis.	No. of	∞ № ⊛ Դ	8
ited.	Amount.	286.40 3,806.30 3,806.30 3,806.23 281.59 283.71 283.71 1170.40 2,890.49 2,890.49 2,890.40 2,890.40 2,890.40 2,890.40 2,890.40 2,890.40 3,800.40 2,800.40	11,819.61
Total Constructed	Square Feet.	2,700 00 2,000 00 2,000 00 2,000 00 2,000 00 2,000 00 2,000 00 2,000 00 2,000 00 2,000 00 2,000 00 2,000 00 2,000 00 2,000 00 2,000 00 2,000 00 2,000 00	123,239,10 011,819.61
Tota	Lineal Feet.	450.00 454.75 848.72 848.72 928.68 1.128.05 878.77 1.478.88 4.20.88 888.88 888.88 850.00 650.00	18,465.14
Owners.	Amount.	\$ 198 00 3.150 00 3.155 00 246 00 880 00 99.00 270.00 170 00 280 00 280 00 280 00 280 00 280 00 280 00 280 00 280 00	9,002.25
perty	Sost 19 Ted	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Constructed by Public Contract. Constructed by Property Owners.	Square Feet.	1, 980, 00 1, 1, 20, 00 1, 1, 20, 00 1, 1, 20, 00 1, 1, 20, 00 1, 1, 20, 00 1, 1, 20, 00 1, 1, 20, 00 1, 1, 20, 00 1, 1, 20, 00 1, 1, 20, 00 1, 25	95,620.00
Construc	Lineal Feet.	880 00 5 250 00 1250 00 410 00 688 88 166 67 500 00 1 200 20 881 88 8 125 00 283 88 8 185 00 8 550 00	14,492.91
Contract.	Amount.	Cts. 200 00: 91/2 6 68: 40 51:80 99/2 119:30 52: 801 99/2 6 68: 40 52: 802 60: 91 61: 802 60: 91 6	82,317.36
blic	Cost per Pt	0.000000000000000000000000000000000000	I
sted by Pu	Square Feet.		26,619.10
Construc	Lineal Feet.	20.00 209.30 171.50 171.50 171.50 24.75 179.60 179.80 179.	8,972.23
. 1994	Width	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	To	16th St. 18th St. 17th St. 17th St. 18th St. 18th St. 18th St. 18th St. 18th St. 19th St. 19th St. 19th St. 19th St. 19th St. 19th St. 18th St. 18th St. 18th St.	8.50 miles
	From	18th St. 17th St. 17th St. 18th St. 18th St. 18th St. 18th St. 18th St. 17th St. 17th St. 17th St. 17th St. 17th St. 17th St. 18t	
	Side.	West. West. West. Sabt. West. West. West. West. Sast. West. West. Worth South South Worth Worth Worth West.	16 contracts.
	Street.	Camp'ell St West. Camp'ell St West. McGee St. Both. Gamp'el St West. Camp'el St West. Cherry St. East. Cherry St. East. Cherry St. West. Holm's St. Both. 18th St. West. Troost Ave. Both. Pt. of 18th St Both. Hth St South Hth St North Camp'ell St East. Camp'ell St East. Camp'ell St East.	16 50

Constructed by Public Constituted by Property Total Constructed by Public Constructed by Public Constructed by Public Cost. Cost	
Lineal 2 Collineal	,
218.00 22/39	ا ن
183 50 213	Twenty-eighth St
21.3, 27.36 29. 20.15 29. 20.15 20.3 20.3 20.3 20.3 20.3 20.3 20.3 20.3	A point 192 ft. north
2015 25.28 2015 25.28 2015 25.28 2015 25.29 2017 25.29 2017 25.29 2018 25.29	of 22nd St
2015 10.07 885.00 20 20 20 20 20 20 20 20 20 20 20 20 2	Drookivn Ave
2014 10.07 382.00 25 383.00 25 283.0	Thirty-first St.
2314 27.78 2314 25.10 25	Nineteenth St
23.1 25.1 25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	Park Avenue
23.1 25.0 1 25.0	Broadway
231-6 231-6 231-7	Ninch St 5
23.5	Broadway 5
20.19 20.19 20.19 20.19 20.19 20.19 20.29 20.19	Thirtieth St 5
23.19 23.19 23.29 23.29 23.29 23.29 23.29 23.19 24.19 25	Twelfth St 5
22. 9 23. 99 23. 99 24. 15. 15. 00 23. 99 24. 15. 15. 00 23. 15. 15. 15. 00 23. 15. 15. 15. 00 23. 15. 15. 15. 00 23. 15. 15. 15. 00 23. 15. 15. 15. 00 23. 15. 15. 15. 00 23. 15. 15. 15. 00 23. 15. 15. 15. 00 24. 15. 15. 15. 00 25. 15. 15. 15. 15. 00 27. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	Thirty-first St 5
23. 29 11.24 25 00 25 23. 29 15.24 25 00 25 23. 29 15.24 25 00 25 23. 29 15.24 25 00 25 25 25 25 25 25 25 25 25 25 25 25 25	Indiana Ave.
23.99 14.1% 23.00 25 22.00 25 23.00 25	riffeenin St.
23. 59 9 5 67 133.00 25 23 19 9 5 67 133.00 25 23 19 9 5 67 133.00 25 23 15 6 135.00 25 23 15 6 136.00	Thirteen Co.
21.4 128.33 128.23 21.4 20.00 23.2 21.99 24.2 20.00 23.2 21.99 27.2 20.00 23.2 21.99 24.2 20.00 23.2 21.99 24.2 20.00 23.2 21.99 24.2 20.00 23.2 24.2 24.2 24.2 24.2 24.2 24.2 24.2	Indiana Ave
21.4 21.4 21.4 21.4 21.4 21.5 21.3 21.3 21.3 21.3 21.3 21.3 21.3 21.3	7 exil
21'4 22'5 50 130 00 21 21'4 6', 61 136, 00 25 20'1 135 44 20'5 00 21 20'1 135 44 20'5 00 21 20'1 135 44 20'5 00 21'1 135 44 20'5 00 21'1 135 15 20'0 00 21'1 15 57 20	College Ave
2014, 139,44 203,00 23 2014, 139,44 203,00 23 2015, 139, 14 203,00 23 2015, 129, 14, 100,00 23 21, 29 45, 20 00 23 21, 29 45, 20 00 23 21, 29 45, 20 00 23	Twenty third St.
2013, 139,44 203,00 21 2013, 131,44 160,00 21 2013, 122 16 2013, 134 170 00 21 21,59 140,00 22 21,59 140,00 23 21,59 140,00 23	Twenty brst St
2013. 113.44 160.00 21 2013. 4 160.00 21 21 21 21 21 21 21 21 21 21 21 21 21	Indiana Ave
21.39 94.26 1,720.00 21 21.99 94.20 140.00 28	Vine Street
21.99 11.66 1.720 00 221 27.29 191 97 200 00 221 21.99 94 20 140.00 23	Walrend Ave 5
21.99 94.20 10.00 25	Agnes Ave 5
21.99 94.20 140.00 23	Harrison St 5
OF SUR T OF SUR B	nelleview Ave
ON SER 1 GT SER 2 8	1
A	30 contracts

STERRING APPLIANCE AND A APPLIANCE A

.elli	a lo.oM	8 11 10 10 11 8 12 10 11 8 11 11 8 11 11 8 11 11 11 8 11 11 1	25
	Total Cost.	907.81. 221.26 1.841.45 1.007.71 290.84 195.95 195.95 591.80 289.69 495.20 838.95 1,086.63 1,086.63	820,949.90
ous.	Price.	65.00 24.55	
Miscellaneous	Measure- ment.	Yards	285.20
Misc	Specifi- cation.	Ditch Wall	
e r	Price per 1,000,1	\$2 :	1
Oak Lumber.	Peet B. M.	303	8,343
kap.	Price per Yard.	22.65	
Rip Rap.	Cubic Yards.	7.10	202.34
	Price per Foot.	## ## ## ## ## ## ## ## ## ## ## ## ##	
Drain Pipe.	Lineal Feet.	94.00 25 54.00 42 77 34.00 42 77 96.00 75 48.00 65 76.00 90 76.00 90 90 90 90 90 90 90 90 90 90 90 9	1, 134. 14
Ď	Size	212 212 213 224 136 137 137 137 137 137 137 137 137 137 137	Ī
ırds	Price per Yard	\$ 25 25 25 25 25 25 25 25 25 25 25 25 25	1
Cubic Yards Stone.	Exca.	67.80 25 67.80 25 67.80 25 67.80 25 846.60 121;	4,117.00
	Price per Yard.	2 ± 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-
Cubic Yards Earth.	Em- bank- ment.	6,239.00 6,239.00 8,507.80 8,507.80	22,118.00
c Yards	Price per Yard.	22 5 5 6 5 5 5 6 5 6 5 6 6 6 6 6 6 6 6 6	
Cubi	Exca-	1,115.60 7,748.50 2,942.00 2,942.00 2,594.00 2,596.90 2,596.90 2,596.90 1,596.40 1,604.40	13,205.61 70,529.70
	Lineal Feet.	1,475.00 938.70 286.80 286.80 380.00 408.00 408.10 585.12 585.12 585.13 165.00 612.00 612.00 612.00 612.00 612.00	13,205.61
	ţ	Wood's Average Street,	
	From	Forest Avc. 20th St. Sath St. Tracy Avc. Camp'ell St 16th St. Maiden La. Penn'a Av. McGee St. 1.th St. 20th St. 20th St. Penn'a Av. Villa St. Brook in Av Amie St. College Av. 14th St. 20th St. 20th St. 20th St. Amie St. College Av. 24th St. College Av. 24th St. Amie St. Amie St. 32th St. Amie St. 32th St. Amie St. 32th St. Amie St. 32th St. Amie St. 32th St. Amie St. 32th St. R. Long Pl. Belliv Wav. Belliv Wav. Mercier St. 20th St.	2.50 miles.
	Street.	orest Avc. sth St amp'ell St laiden La. folcee St sth St sth St enn'a Av rook'n Av olollege Av. ndiana Av. ndiana Av. mie St mie St mie St pth St	2.50

ALLEYS GRADED DURING FISCAL YEAR ENDING APRIL 20, 1896.

	Total Cost.	13.75	6.50	106 56	266.04	139.01	425.36	296.46	605.26	20.00	81.96	22,704.54	-
		!_ - - :	- : :	<u>-</u>			62.25		\$2.35	:	 : :	1 2	-
eous.	Price.	1.		_:	: : 		<u> </u>			_		<u> </u>	-
Miscellaneous.	Measure- ment.	٠. ۲ d		:	:	: :			82.20		: : : :-	150.70	_
Misc	Specifi-						Masonry		Masonry				
Rap	Price per Yard			_ : ;	8.1		3		23.	:			
Rip	Cubic Yards.				8.00 61.00		23, 02, 91, 12%		41.09 61.25	:		68.13	_
ģ	Price per Foot.	:		_:		8	_		65c.	:			_
Drain Pipe.	Lineal Fect.			:	105.00	52.00	¥ 8		\$00.00	:		455.00	
2	Size		ii	<u> </u>	2	7	2 5		2			1	-
6	Price per Yard	:		3	3		:	:	2	:	•		_
Cubic Yards Stone.	Exca-		::	153.90	5 20				25 50	: :		233.10	
	Price peri	5 :		•	<u>:</u>	2	2		2		: :		-
Cubic Yards Earth.	Em- bank- ment.	:		284.30	:	679.20	1,513.20		2,2,1.60	1 449 10	:	6, 197, 40	
c Yar	Price per Yard.	2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	23.23		= 7			\$		2	-		-
Cubi	Exca-	315.60	217.20	657. 40	349.00 12	505.50 271		- 08'859		9	273.20	5, 529, 50	
	Lineal -	878.00	694 50	271.08 410.08	355 YE	98 6 11	659.00	£	35× (H)	3 2	435 (H)	6,429.84 5,529.50	-
	T ₀	Tth St	efferson St	17th St	30th St.	25th St.	29th St	11th St	Both St	St. John Av	21st St	-	
-	From		S. 16th St. 1 Summit St. 1	S 16th St 1	orb St. 3	oth St 24th St		feet N. of	ath St	Pendin Av. S	oth St	iles.	
	Between	Troost and Forest Aves. 26th St	Jefferson and Summit Sts. Alley im ly S. Jeth St. Trh St Imm'y South of 16th St., Summit St. Jefferson St.	Washington St	Holly Strand W Provi Pl. 28th St.	Holly St and W Prost Pl. 23th St	Mercier and Holly Sts 24th St	Wyandotte St. and Balti- 75 mete Ave.		Park Ave. and Olive Jo. P.	Park Ave and Olive St 20	1 B -	

DISTRICT SEWERS CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 20, 1896.

<u>.</u>	ber.	Catch B	lasin	Connect	ions		P	IPE S	EWER.			BRICK	SEW	ERS
Number.	Number	12-inch	Pipe	18-inch	Pipe	8-	inch		10-	inch.		3 Feet,	6 In	ches.
District N	Ordinance 1	Lineal Feet.	Price per Foot.	Lineal Feet.	Price per Foot.	Lineal Feet	Price per Foot.	Average Depth.	Lineal Feet.	Price per Foot.	Average Depth.	Lineal Feet.	Price per Foot.	Average Depth.
48 Joint. 42-44 107.	6,177 6,623	111.5	 40c	181.2	 65c	12,295	12c	15.00	197.6	75c	5.00	631.3	8 3.10	
		111.5		181.2		12,295	l		197.6			631.3		

DISTRICT SEWERS.—CONTINUED.

umber.	Number.		fan oles.		atch sins.		ck ava- on.	Lum	ber.	Rip	Rap	P.	Cost.	Tax Bills.
District Number	Ordinance A	No.	Price Each.	No.	Price Each.	Cubic Yds.	Price per Yd	Feet, B. M.	Price pr. 1000		Price per Cubic Yard.	Total Lineal	Total C	No. of Tax
48 Joint 42-44.107.	6,177 6,623	6	\$20.00 25.00	1	\$30.00		1	4,204.50 1,779.00	ļ	1	l	1,427.10 924.00		1,848 477
		10		3		791 80		5 988.30		3.70		2,351.10	\$ 4,631.91	1,820

REPAIRS FIRST-CLASS SIDEWALKS AND CURBING DURING FISCAL YEAR ENDING APRIL 20, 1896.

District.	New Curb Lin. Feet	Coal Holes	Reset Curb Lin. Feet.	Repairs Sidewalks. Sq. Feet.	Stop Boxes. Number.	Total Amount.	No. of Bills.
General	3,046.30	3	6,590.00	1,009.00	1	¢ 2,922.79	409
	3,046.30	8	6,590.00	1,009.00	1	¢ 2,922.79	409

REPAIRS SECOND-CLASS SIDEWALKS DURING FISCAL YEAR ENDING APRIL 13, 1896.

District.	New Lumber. Feet B. M.	Old Lumber. Feet B. M.	Grading. Cubic Yards.	Total Cost.	No. of Bills.
District No. 1	139,568.00 157,784.00 294.241.00	186,880.00 149,500.00 801,765.00	85.00 42.00 336.00	\$ 3,506.93 3,562.69 6,762.21	978 844 1,510
	591,593,00	638,145.00	463.00	•13,835.82	3,:32

MISCELLANEOUS PUBLIC WORK CONSTRUCTED DURING FISCAL YEAR ENDING APRIL 20, 1896.—PAID FOR BY VOUCHER.

Contractor.	Specifications.	Amount
F. P. McCormick	Constructing extra Stone Pavement in front of Engine House at 5th and Bluff Sts., 27 9-10 Sq. Yards @ \$2.78	● 77.56

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Street.	From.	Ę	Date	Date Sprinkled.	skled.		Time.		Lineal	Month a. Foot Centa	Lineal	Times	 dig zel	Total
ļ	 		From.		. 5		.soM	Days.	Street.	og 1202 id 139 id 139	Property.	Day.	10.0V	
Broadway, complete Bluff St, complete		Eleventh St.	March 1, 1895 Nov.	_ X X		80, 1895 30, 1895	• •		2,404.90	2 88-100		••	297	714.17
Broadway		16th St East	June 8, 1	8, 1895 Nov.			•	ន	2,244.00	, <u>*</u>	3,973.23	•		=
Broadway.	Sixteenth St	Seventeenth St		1895 Nov.	ov. 30,), 1895	•	. f.	616 50	- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	1.276.57	4 4	8	\$
Campbell St. complete		Sixteenth St.	 	1895 Nov. 1895 Nov.				-	2, 129 (8) 8, 242 (9)	²⁷ μ	8,640.21		ž =	832.40
Charlotte St	Indep. Ave	Fifth St	June 8, 1	Z	Nov. 80,	, 1895	•	2	1,014.50	9	1,824.16	•	2	5
Eleventh St.	Santa Pe St. Main St.	Liberty St Grand Ave	March 1, 3	288 288 288 288 288	NXX NXX	80, 1495 80, 1495		2.2	1,001.00 517.00	2. 1. 19-20	920.50	* * * *	822	261.82
_	Equesh Co	Ninth Street	•					; ;		-		Jut Au		_
forcat Ave. complite.	Indep. Ave	Fifth Street	March 1, 1895 Nov.	22.534				r i	1.375.50	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2,498 63	••	2 2	240.44
15th St., complete	Virkinia Ave	Prospect Ave	March 1, 1895 Nov. March 1, 1895 Nov.	1895 Nov.		30, 1895 30, 1495	• •		1.711.00	2 8-5 8 19-20	7,174.6	••	3 2	3 3
rourth St	Grand Ave		June 8, 1	1895 N		, 1893		23	2,070 50	1 33-100		-	E	22
Fifth St	Broadway	Grand Ave.	June 8, 1	1×95 Nov.			· ·	5	2,025.00	1 31-100	8,568.44	Jut Au	8	156.
Grand Ave	Fighth St.	Twenty-first St.	une 21. 1	2 2				77	6.124.00	01-61	_	→ •	2	610.48
	complite Sixteenth St	: ;:	March 1. 18	2 2			•	3 :	23.156	3	1,768.91	•	3	230.43
nolilles St	indep. Ave	I bird St	une s.	~			n	r.	1,500.00	?	2,618.40	Jut Aut	2	103
ndep Ave. complete	Grand Ave	Woodland Ave	A 118, 13,	1895 Nov			000	6	5.939.00	•	9,609 OR	•	165	20.
Missouri Ave.	Delaware St	Forest Ave.	march I.	ດທັ		80, 1895 80, 1895	7	: 67	38.54.7 1.463.88	1 2 2 1	7,528.95	• •	<u> </u>	239 89
Main St	Third St	Nineteenth St	lune 21. 1	1×85 Nov.	. 20	1893	10	2	7.051.00	1 19-20	12 440 78	Jut Au	8	288
Nurth St., complete Nueteenth St	Prospect Ave	Easterne ity Lim		1595 Nov. 1895 Nov.			a n	: ;2	3 870 00 894.00		7,449.40		8 °	1,010.07
1				'	i			1				Ju4 Au4		!
Amount forward								_	100 000	_				

STREET SPRINKLING DONE DURING FISCAL YEAR ENDING APRIL 20, 1896,

CONTINUED.

1896.
80,
APRIL
YEAR ENDING APRIL
YEAR
FISCAL
CLEANING DONE DURING
DONE
EANING
STREET CL
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		Total Cost.	61,121,80	1,260.05	2.66 70	236.00	257 40	124.80		43,206.75
	Illa.	o oN B zsT	644		295		-		1	1,599
		Feet of Property.	10,330,00	10, 134, 16	4,569.29	4,015.00,				22,002,00, 37,265,24 1,599
j		Feet of Street.	6.313 00	5,965 00 1	2,566,00	2,532 00	8,319,00	1.277.00		22,002,00
-	. yu	Gost printed	11.30	15 95	2.3	ŝ	9.60	3.20		
		sioT suiT		6.	£	3	65	2;	-	_
į	190	rimes.	· •		_	_	_	-	_	_
	Time.	-ayaG	<u>:</u>	:	:	:	:	:		_
i		- – Rontha	56	602	9 282	200	95	6 26	1	-
i		ů	3.	3	9	99,	30, 1895			
	leaned	,	Nov.	Nov. 30, 1495	óZ	Nov	No.	Nov.		
	Date Cleaned.	From	Mar. 1, 1895		Mar. 1, 1895	Mar. 1, 1845	Mar. 1, 1495	Mar. 1, 1195	1	
		<u>د</u> د	Main St Woodland Ave.	Woodland Ave.	Prospect Ave.	Forest Ave	Sixteenth St	Ninth St		
;		From	Main St.	Walnut St	Woodland Ave.	Locust St	Eighth St	Independ ce Av		
:		Street.	Eighteenth St complete.	20	Ninth St. complete Woodland Ave. Prospect Ave.	Ninth St. complete Locust St	Pennsylvania Ave. comp'te Eighth St Sixteenth St	Woodland Ave. complete. Independ ce Av Ninth St		

STREET CLEANING AND SPRINKLING DONE DURING FISCAL YEAR ENDING APRIL 20, 1896.

x e	Total	B	54 8 291.98 72 316.65 174 1,275.09	
-	9111	Lines of S	340.00 641.00 2,577,00	
101 101	ober	I ine	960.00 1,195.00 4,668.70	
Su	301	Cost	12.88	
Clean	la	Toor Time	222	
og.	Cost Der Lin.	Fr. St. Month	19 % C	
inkli		Ting d red	***	j
Spr	ne.	Days	488	
	Tit	.soM	0.00	
es.		To	Nov. 30, 189 Nov. 30, 189 Nov. 30, 189	
Dat		From	Mar. 1, 1895 Mar. 1, 1895 Mar. 1, 1895	
	To		Fourth St. Seventh St. K. C. Belt Ry	
	From		Second St. Independ on Av. Stategraft St.	
	Street		Grand Ave complete Walnut St. complete	

RECAPITULATION OF STREET CLEANING AND SPRINKLING DONE DURING FISCAL YEAR ENDING APRIL 13, 1896.

		107	STT DUIS	DUBING FISCAL TEAR DADING AFRIL 19, 1000.	DING OFF	77 '67 71				
Speci	Specification.	Number of Contracts.	Lineal Feet of Property.	t Lineal Feet of Street.	Miles.	Average Corper Lin. Ft Street.	Average Cost Average Cost per Lin. Ft. Street. Property.	t. Tax Bills.	ber Amount.	,
Sprinkling Cleaning Cleaning and	Sprinkling Cleaning Cleaning and Sprinkling	ស្នេច	174,668.99 87,265.24 6,821.70	99, 172.50 22, 802.00 8, 718.00	18.78 4.17	90.144 .1457 .5066	. 276 . 086 . 276	5,721 1,599 300	721 814 , 289. 86 599 8, 206. 75 1, 868. 73	
								7,620	20 619,880.88	۱ ـ
Building Petitions Paving, Grading an Sidewalk Petitions	etitions ading and Mi	iscellaneous F	F Petitions	Building Petitions Paving, Grading and Miscellaneous Petitions Sidewalk Petitions	ANVASSEI					166 166 166
STREE	CT PAVIN	IG CONTE	MPLAT	STREET PAVING CONTEMPLATED BY ORDINANCE AT CLOSE OF FISCAL YEAR Ending April 20, 1896. Asphalt.	DINANCI r 20, 1896 net.	E AT C	LOSE C	F FIS	CAL YEAR	!
			Former	'Se		Appr	Approximate Estimate.	mate.		l
Street.	From	J.		Thickt Inchi	Poundation.	Lineal Sq Feet. Y	Lineal Square Per Per Per Yards.	Total Cost.	Remarks.	1
Harrison St	Harrison St. S. line 12th St Ninth St E. line B'way	N. line 16t St Ced. Blk. E.1. Wash'n St. Ced. Blk.	Ced. Blk.	154-15 in. bit. concrete, 4 in. conc. 1,716-95 5,484,00 154-154 in. bit. concrete, 4 in. conc. 459.00 1,331.00	rete, 4 in. conc.	459.00 1,5	84.00 62.50 831.00 3.65	\$18,710.00 3,527.15	618,710.00 Contract confirmed. 3,527.15 Contract confirmed.	
	0.41 miles.					2,175.95 6,815.00	115.00	017,287.15		1

STREET PAVING CONTEMPLATED BY ORDINANCE AT CLOSE OF FISCAL YEAR Ending April 20, 1896.—Continued.

BRICK.

		Pormer	Space			₹	Approximate Estimate.	e Estima	ij	
Street. From	ů	Pave- ment.	Brick.	Foundation.	ation.	Lineal Feet.	Lineal Square Cost Total Feet. Yards. Sq. Yd. Cost.	Cost per Sq. Yd.	Total Cost.	Remarks.
Baltim's Av S. line 13th N. line 14th	N. line 14th	None.	Cement	Grouting e in. concrete, 2 in. sand. 445,30	, 2 in. sand.	445.30		E 63	2,951.64	1,822 00 61 62 6 2,951 64 Contract not confirmed.
Grand Ave. S. line 3rd N. line 5th	St	Ced. Blk.	Grouting	6 in. concrete	9, 2 in. sand.	540.00	2,256.60	1.27	2, 1465.12	2, 1465. 12. Contract not confirmed.
Harrison St Tenth St 12th St		Ced. Blk. }	Grouting	Grouting 4 in. concrete, 2 in. sand.	. 2 in. sand.	828.50	3,410 00	1.58	5,217.80	5, 217. 30 Contract confirmed.
Jenerson St. S. Inc. 20th N. Hige S. W.	Bouley'd.	None.	Sand.	Sand. 6 in. concrete, 2 in. sand. 1,269.20	, 2 in. sand.	269.20	4,150.00	3.	6,391.00	6,391.00 Contract confirmed.
Dark St. St. Drend's Av. St.	St	Ced. Bik.	Sand.	6 in. concrete, 2 in. sand. 999, 36	, 2 in. sand.	969.36	3,452,00	1.504	5.195.26	1.504 5.195.26 Contract not confirmed.
St St	S. line zorn	None.	Sand.	6 in. concrete, 2 in. sand. 659,00	s, 2 in. sand.	659,00	1,620.00	1.53	2,478.60	2,478.60 Contract not confirmed.
o op miles.			·			4,741.36	4,741.56 16,710.00		625,098.92	

STREET PAVING CONTEMPLATED BY ORDINANCE AT CLOSE OF FISCAL YEAR Ending April 20, 1896—Continued.

MACADAM.

					Ap	Approximate Estimate.	Estimat	و و	
Street.	From	To	Pave- ment.	Specifications.	Lineal Feet.	Lineal Square Cost Feet. Yards. Sq. Yd.	Cost per Sq. Yd.	Total Cost.	Remarks.
Bell'v'w Av	Bell'v'w Av 21st St 24th St	24th St	None.	None. 1 in. screenings, 6 in. Beth. Falls lime- stone, 6 in. native stone.	1.284.90	4.897.00	60.581	6 2.572.25	1.284.90 4.897.00 e0.581, 6.2.572.25 Contract annulled
Flora Ave.	Flora Ave. S. line 19th N. line 25th	N. line 25th St	None.	Brick margin, 3f in screenings, 6 in Beth. Falls limestone, 6 in native stone	3,000.00	3,000.00 10,916.00	99	7,652.86	7,652.36 Contract confirmed.
15th St	W. line Virginia Ave	W. line Vir- E. I. Wood-	None.	6 in native limestone, brick margin, 1 in. screenings, 6 in. Beth. Falls limestone.	1 817.71	1 817.71 12,871.00	.663	8,591.39	8,591.39 Contract confirmed.
Total St	land Ave.	limits	None.	in. Bath, Falls limestone	6,414.27	6,414.27 44,692.00	.5	23,641.40	23,641.40 Contract confirmed.
Cydla Ave	Lydia Ave., tota St tota St	Contraction	None.	gravel, 8 in native limestone.	1,263.96	1,263.96 3,765.00	88.	3,350.85	3,350.85 Contract confirmed.
vard	Bridge	S. W. Boule- Beit Nati y State line. Ced. Bis. vard Bridge	None	6 in. Beth Falls limestone.		4,830.00 28,000.00	35	10,168.25	10,16н.25 Contract confirmed.
11th St	Ave Forest Ave. Garfield Av	Ave pect Ave. orest Ave. Garfield Av		4 in Osage River gravel		848.37 2,155.00		1,904.48	.883s 1,904.48 Contract confirmed.
19th St	E.line Main	19th St E.line Main W. I. Olive St	None.	in effectings % in bein rais inne- stone 6 in bank gravel, 6 in rock, 24 in brick guiters.		3,180.75 13,403.00 8,039.00 23,585.00	1.00	9,588.15	9,588.15 Not confirmed. 23,585.00 Not confirmed.
	5.08 miles.				80,628.96	80,628.96 143,784.00		691,049.13	

PLANK SIDEWALKS CONTEMPLATED BY ORDINANCE AT CLOSE OF FISCAL YEAR Ending April. 20, 1896, at Noon.

Side. From From Side. Twenty-sith St. Front St. Second St. Santh South Santa Fe St. Mulberry St. West. Eighteenth St. Twenty-side Twenty-side South Met Twenty-side St. Twenty-side South Madison Ave. Hillhois Ave. Morth Madison Ave. Hillhois Ave. Morth Madison Ave. Hillhois Ave. Manualkee Ave. Twenty-side South Madison Ave. Hillhois Ave. Manualkee Ave. Twenty-side Madison Ave. Hillhois Ave. Manualkee Ave.	Approximate Estimate.	Feet. Lineal Price, Cost.	\$ 450.00 2314		2 320 00 40	5 270.00 20	5 270.00 27.99	22	5 530.00 25	St 5 Not let	5 884.00 35	5 270 00 38	- •o	- -	
Side. Side. South South South West West West West West	-		th St. Twenty-sixth St.	Second St	St. Mulberry St	f	Lott's Add'n North side Twenty-hrst	Si	St	renth	Mulberry St.	Lve Belleview Ave	Lye	St. Milwankee Ave.	
Street. Chestnut St. Delaware St. Eleventh St. Eleventh St. Madison Ave Madison Ave Madison Ave Twelfth St. Twentieth St. Twentieth St. Wyandotte St.	e is	<u> </u>	West	West	South	South	North line		Fast Eighteenth	West Twenty-si	South	South	North	Nyandotte St Twentieth	

FIRST-CLASS SIDEWALKS CONTEMPLATED BY ORDINANCE AT CLOSE OF FISCAL

YEAR ENDING APRIL 20, 1896.

				Feet.		Approximate Estimate.	e Estimate.		
Street.	Side.	From.	Т°	'dibiW	Lineal Feet.	Square Feet.	Price per Foot.	Cost.	Material.
Eighteenth St. North. The Fourteenth St. South. The Fifth St. South. Of Fourteenth St. Both. Worth. Will Didespendence Ave. North. Will Missouri Ave. North. Of Thirteenth St. Dears of Husteenth St. West. E. Washington St.	North South South Both North West	Tracy Ave. Lydia Ave. Tracy Ave. Virginia Ave. Oak St. Locust St. Wyandotte St. Broadway Wyandond Ave. Eastern City limits Missouri Ave. Fifth St. Oak St. Locust St. Holmes St. Flora Ave. Eleventh St. Twelfth St.	Lydia Ave Virginia Ave Locust St. Broadway Eastern City limits Count St. Count St. Count St. Twelfth St.	****	62. 50 135. 00 316. 60 14. 083. 34 1, 083. 38 308. 34 316. 60 1, 096. 00	810.00 810.00 1.960.00 6.500.00 6.500.00 1.990.00 6.578.00	17% C. 17% C. 17% C. 17% C. 17% C. 17% C. 17% C. 17% C. 17% C. 17% C. 17% C. 17% C. 17% C. 18	45.00 158.90 837.25 144.00 507.00 827.85 837.25 567.09	Brick. Art. sto. flag. Art. sto. flag. Art. sto. flag. Brick. Art. sto. flag. Art. sto. flag. Art. sto. flag. Brick. Natural stone.
9 contracts.	ا د <u>چ</u>	0.66 miles.		Ī	3,501.71	21,136.00		62,473.87	

CURBING CONTEMPLATED BY ORDINANCE AT CLOSE OF FISCAL YEAR ENDING

APRIL 20, 1896.

Approximate Estimate, Lineal Price Amount.	1	0 612,184.81
Appro	128 00 00 00 00 00 00 00 00 00 00 00 00 00	26,350 (10)
Thickness, Inches.		
To.	Prospect Avenue Twenty-fourth Street. Eastern City Limits Eastern City Limits Continues thoulevard Olive Street Prospect Avenue Prospect Avenue Punns, Ivania Avenue The Mount Street The Mount Street The Mount Street Third Street	
From.	Prospect Avenue Twenty-fourth Street. Twenty-fourth Street. Twenty-fourth Street. Twenty-fourth Street. Eastern City Limits Southwest Houlevard. Olive Street. Propert Avenue Promyt Variet. Eight Street. Hollmas Street. Hollmas Street. Oak Street.	4 99 Miles.
Side.	######################################	!
Street.	Amic Street Bellevius Avenue Fultenth Street Nineteenth Street State Street State Street State Street State Street Twenty Street Twenty eight Street Twenty eight Street	11 Contracts.

1,4119 48		4,9M3 (O		6,981.00	2,861.00 6,981.00	.44 miles.	3
0 11 0 11 0 11 0 11 0 11 0 11 0 11 0 11	::- ::= -:::a	26 101% 4, PNB, 00	g :	6, 434, 00 0, 434, 00	271.00 1.290.00 800.00	Lawton Place. Washington Street Broadway Addition Charlotte Street Sixth Street Saventh Street Street Sixth Street Saventh Street Street Street Street Street Street Street Street Street Street Street Street Street Street	
	- -	Price. Embank Price.	Palce.	Excava:			
	ند	Cuble Yarda Rarth.	ble Yard	C	Lineal Freet.	Ţ.	
		. community	Approximate Patimate				
10, 1896.							
• 180 CM	. AP. 2	V DN	END	YEAR	CAL	CLOSEOF	T AT
00 001 •	A P. 2	• e e e	END	YEAR	CAL 3	STREET GRADING UNDER CONTRACT AT CLOSE OF FISCAL YEAR ENDING AP. 20, 1896.	T A T
Amount.	• • • • • • • • • • • • • • • • • • •	× 5×	is Inche	White Elba 12 Inches L YEAR ENDIN	CAL J	Both. Independence Avenue Pendleton Avenue	Pendler T AT
	Price bach • • • • • • • • • • • • • • • • • • •		Diameter 12 Inches	Nind Diameter. White Kim. 12 Inches	CAL,	To.	Pendlet

ALLEY GRADING UNDER CONTRACT AT CLOSE OF FISCAL YEAR ENDING APRIL 20, 1896.

		A mount.	6323.75	6323.75	-	Lineal Feet.	——————————————————————————————————————
Approximate Estimate.	Rock.	Cubic Yards	410.00	410.00	Lumber.	Feet B. M.	
pproxima	Earth.	Price, Cents.	10	 		Varids.	
	Cubic Yards Earth.	Excavation.	1,290.00	1,290.00	Concrete	Varida. Price. Cubic Yarda. Cubic Yarda.	
i. 		Exca		١		1 1 1 1 1 1	8
 	Length, Feet.		857.00	857.00	stimate.	Price Es	
					Approximate Estimate.	Varids & Surds Varide Price.	
	To		Seventeenth St.		Approxim	Price.	
	-					Cubic	3
1						sbauoq Price	9
	From		h St			Lineal of E. Freet fr. o. n. Price. Drice.	674 6
 - 			Sixteenth St.			Price P	
			dition	U.16 miles.	Pipe Sewer.	Price - Price	
	-		dway Ade	i	-	Ordinance	- 9 - 9 - 19
	Between		Washington St. and Proadway Addition	1 contract.	-	Sewer	- I wonterstand don't House

DISTRICT SEWERS UNDER CONTRACT AT CLOSE OF FISCAL YEAR ENDING AP. 20, 1896.

	-						i	APPR	OXIM	ATE E	APPROXIMATE ESTIMATE.	TE.						
	Car	Catch Basin Connect'ns.	Conn	ect'ns.							Pipe	Pipe Sewers.		Ì				
District Number.	nsnib edgin =	10 Inch.	13	12 Inch.	6 Ir	6 Inch.	8	8 Inch.	10 Inch.	ch.	12 Inch.	 G	15 II	15 Inch.	18 1	18 Inch.	21 Inch.	ch.
10 .— -	й. і́дя_	Lin'l Price Lin'l Price Feet, per Ft Feet, per Ft	Lin'l Feet	Price Per Ft		Lin'l Price Lin'l Price Lin'l Price Feet, per Ft Feet, per Ft	Lin'l Feet.	Price, per Ft	Lin'l Feet.	Price per Ft	Lineal Feet.	Lineal Price Feet, per Ft	Lineal Feet.	Price per Ft	Price Lin'l Price per Ft Feet, per Ft	Price per Ft	Lineal Fect.	Price per Ft
Joint, 52-54-55-56-&c	623 903 74	9	3000	50c.	30	:	3.17	20°C	4,221	550.	4.950		2,025		665		162 4-10 6 1 90 0 1319 1.60	1.60
3 Contracts.	<u></u>	 	3208.5		26	'	341		4.221	 	4,950	i	2,025		665	!	1481 4-10	
								APPRO	XIM.	ATE E	APPROXIMATE ESTIMATE.	TE.						
90									Bric	Brick Sewers.	ers.						,	
District Number.	dinan umbe	24 inch.	- 58	28 Inch.	-30.3	30 Inch.	32 1	32 Inch.	36 1	36 Inch.	38 Inch.	ich.	40 Inch.	Jch.	42	42 Inch.	44 Inch.	ch.
10		Lin'l Price Lin'l Price Feet, per fit Feet, per fit	Lin'l	Lin'l Price Feet.:per Ft	Feet.	Lin'l Price Lin'l Price Feet, per Ft Feet, per Ft	Lin'l Feet.	Lin'l Price Lin'l Price Feet, per Price Feet, per Ft	Lin'l Feet.	Price per Ft	Lineal Feet.	Price per Ft	Lineal Price Lineal Price Lin'l Price Feet. per Ft Feet. per Ft	Price per Ft	Lin'l Feet.	Lin'l Price Feet, per Ft	l ineal Feet.	lineal Price Feet, per Ft
oint, 54-54-55-56-&c 6622 joint, 164-168-170-171-172-6903 59	1 : :	172 • 1.20	943		165.2	2.20	194	194 6 2.25	242	242 • 2.70	164.7 278	8.45	571	9.25	1,300	3.45	009	8 3 30
3 Contracts.	" 	271	942		165.2		161		1,168		442,7		11.0		1.527		909	
		-	1	-	i					. !								

:	! _				APPROX	IMATE E	APPROXIMATE ESTIMATE.		r			
		Ř	Brick Sewers.	wers.	i	_		_				
District Number.	48 Inch.	St Inch		60 Inch.	70 Inch.		Special Connection.		Manboles.	Catch Basins.		Cast Iron Bends.
	Lin'l Pric	e Lin'l I	Price L.	in'l Price	Lin'l Price Lin'l Price Lin'l Price Lin'l Price Feet perft. Feet perft. Feet perft.			ŏ	Price	, ox	Price No.	o. Price
Joint, 33-54 55. 56. &c. Joint, 164-16s-170-171-172 39.	71-172	· · · · · · · · · · · · · · · · · · ·			3	5.32 6 85 00 At Outlet. 100.00	85 00 45 00 45 00 et. Dis No 172 80 e 75 00	. 2 6 5	\$16.00 30.00 30.00	12 625	225.00	9 3.00
	1.1	1162		. .	7 6	0 145.00	— 10 6 245.00	134		1 12	_	
	-	·			APPRONIMATE ESTIMATE.		TIWATE.	!				
District Number	Rock Excavat'n Farth Embankment	Earth Em	bankını	1	Concrete	Granitoid.		Masonry.		Lumber.	19941	Total
_ ~	Cub Yds Price (ub. Yds.	(ub. Yds.	Price		'ds Price (Cub. Yds.	Cub Yds Price Cub. Yds. Price Cub. Yds. Price	'ds. Pr	ice Feet	feet, Price B.M. pr. M	Linea	Cost.
Joint, 12:54-55-56 &c	500 00 0 00 00 00 00 00 00 00 00 00 00 0	.01	_ : :	10.00	00 @ 2.75	1000	Rubble 25.00 Brick 25.00	0.0	20 21		15.00 9.134	6,937.32
99	5, UND 1 2 (N) 2,000, UD	2,000.00	300	\$0.08 	:	2.00	#12.00 500.00	8	3.50,25,000		18.365	18,00 18,365 44,908.35
	5.67# 00	2,000 00	ı	93	· · · ·	95 69	550.00	9.	29,110	L	23,231	23,231 667,235.38

Street or Alley. 11 Main St. 12 Twenty-fith St. 13 Twenty-fith St. 14 Alley bet Thirteenth and Fourteenth St. 15 Minnie St. 16 Bales Ave. 17 March St. 18 March St. 19 Bales Ave. 18 March St. 19 Walrond Ave. 19 Walrond Ave. 19 Walrond Ave. 19 Seventeenth St.	From T Twenty-fourth St W. line Gratholy St S. W. Boult South Winfield Place. Agnes Ave. Boulte St Wabush Av.	To					
			Mayor's Court	Circuit Court.	Kansas Property City. Owners	Property Owners	Case.
	Olive St.	ind Ave	Nov. 27, '93 April 2	Dec. 9, 92 April 27, 95	888	\$16,855.00 7,068.00 5,999.00	Collecting. Collecting. Appealed.
		Wabash Ave	Feb. 9, '95		1.00	929.00	Complete.
	& Hill's Add	Olive St	April 12, '95	:	1.00	1,749.00	Collecting.
	Place Add	Fifteenth St	July 20, '95		1.00	1,499.00	Appealed. Repealed by
	South line of Bernard Place Add St. John Ave	Fifteenth St	Sept. 7, 95	Jan. 28, 96	1.00	2,184 00	Collecting. Pending
and	Highland Ave	Alley E. of Highland Av Aug.	Aug. 5, 195	:	8.1	299.00	ings; dead. Collecting.
April 29, '95 Main St	~<	Tenth St.			139.15	2, N60.85	Appeal'd to
9, '95 Alley S. of Seventeenth	Campbell St	Alley E. of Campbell	-	:		-	No proceed
9, '95 Alley N. of Fifteenth St. 19, '95 Alley bet. Holmes and	Bellefontaine Ave		Nov. 21, '95	:	:	1,740.42	Collecting.
	Twenty second St	SE	Nov. '95 ! Dec 12.'95		8.6	426.00 8.380.70	Collecting.
2, '95 Fifth St	. 27.	Highland Ave, etc.			8	1,624.00	Appeal'd to Circuit Ct.
6,986 Nov. 21, '95 Grand Ave	Twenty-sixth St	14 Sec. 27 66 ft. S. of N. line Lot 20	Mar. 25, '96 (:	8.	1,099.00	Pending Ap. 21, 96. jury
6, '95 Alley bet. Euclid and S	S. line of Geo. J. Jack-	Scarritt & Perry's Sub Alley immediately N. of Fighteenth St.					Ap 25, 96, jury
	Brooklyn Ave	Prospect Ave				:	Pending.
7, '96 Allay bet. Chestnut and	Twenty-third St	Twenty-fifth St		:		:	Pending.
	vente vente literati	Louis and Turner & Co.'s Ad. A point 17: 65 feet north of Tenth \$1. teenth St. Campbell St. teenth St. Campbell St. teenth St. Locust St. h St. Locust St. Locust St. Sec. 27. N line of St. Sec. 27. Town 20. K 33.	Louis and Turner & Co. s Ad. W. line Block & Coaces & Hopkins 2nd Add. A point 47.55 feet north Tenth St. Tenth St. Tenth St. Tenth St. Tenth St. Tenth St. Tenth St. Alley E. of Campbell St. St. Alley E. of Campbell St. St. St. Askw Ave. St. Locust St. Twenty-third St. Line of W. y of St. Locust St. Twenty-third St. Line of St. Twenty-third St. Locust St. Twenty-third St. Highland Ave. etc. Nine of St. St. Sec. 27. St. Ine of N. y of St. Twenty-sixth St. Sca. 27. St.	Louis and Turner & Co. s Ad. Whine Block & Coates Oct Campbell Torth St. Torth St. Alley E. of Campbell Campbell St. St. Alley E. of Campbell Campbell St. St. Alley E. of Campbell Ince and Twenty second St. Twenty-third St. Dec. Locust St. Caurel Ave. Locust St. Locust St. Locust St. Highland Ave. Co. Jan. Locust St. Locust St. Highland Ave. Co. Jan. Co. Co. Co. Jan. Co. Co. Co. Jan. Co.	Louis and Turner & Co.'s Ad. W. line Block & Coates Oct Tenth 3. A point 17.65 feet north Tenth St. Nov. of Tenth St. St. Campbell St. St. Alley E. of Campbell St. St. Alley E. of Campbell St. St. Alley E. of Campbell St. St. Askew Ave. Nov. St. Locust St. Askew Ave. Nov. St. Locust St. Locust St. E. line of W. ½ of S. E. Dec. Nov. Nov. Nov. St. Locust St. Locust St. E. line of W. ½ of S. E. Dec. Nov. Nov. Nov. St. St. Nov. St. Nov. St. S	Cours and { Turner & Co. 's Ad. } W. line Block & Coates Oct 29. '93	Louis and { Turner & Co.'s Ad. } W. the Block & Coates Oct 29, '93 1.00 A point 17.55 feet north Tenth St. Nov. 9, '93 139.15 Venteenth Campbell St. Alley E. of Campbell Askew Ave. Nov. 21, '93 139.15 Venteenth St. Bellefontaine Ave. Askew Ave. Nov. 21, '93 1.00 Locust St. Locust St. Locust St. Locust St. Locust St. Highland Ave. etc. Jan. 30, '96 1.00 Locust St. Locust St. St

^{*}Mayor's Court

STATEMENT OF GRADING CASES FOR FISCAL YEAR ENDING APRIL 20, 1896.

° s	Ordinance. Date Approve	Date Approved	9	Street or Alley	From	To	Date of Trial.	Dam Kansas City	Damages Kansas Property City Owners	Remarks.
6,147		<u> છે છે કો</u>	1×13 1×95 1×95	6, 1843 Ord St. 16, 1895 Twenty-fifth St. 28, 1895 College Ave.	Elma St. Woodland Ave. Fourteenth St.	Lexington Ave Oct. 27, '91 Prospect Ave. Fifteenth St [une 1, '95]	Oct. 27, '91.			Pending. Repcaled. Complete
6.203 8.303 8.303		. 6. 	25. 25.	March 6, 1895 Alley bet Terrace Ave. and Mercier St	Twenty-viath St					Complete.
6.034	No.		- 5	21, 1894 Alley her Fleworth St. and	Twenty-ninth St	Thirtieth St	:	:		Dead.
6,043			94	Pery Ave.	Walrond Ave	Indiana Ave		:	:	Repealed.
5,224	N S		2.5	26, 1593 Villa St. 26, 1593 Villa St. 26, 1593 Alley bet Park Ave. and		Jefferson St	June 25 '95 April 16, '94		62,000.00	62,000.00 New trial.
5.249	May		1893	Olive St	Pendleton Ave	St John Ave Feb.	Feb. 2, '95	:	513 25	513 25 Complete.
5.571	une		149	McGee St. 1594 Alley bet Holly St. and W	Thirteenth St	Fourteenth St		:	:	Repealed.
5.473	No.	•	6, 1594	6, 1594 Twentieth 51.		Thirtieth St. Holmes St.				Repealed. Pending. Pending.
6,112	April Dec.	<u> </u>	55	12, 1594 Brooklyn Ave. 12, 1594 Alley bet. Cherry St. and	Amie St.	Lexington Ave Dec.			300 00	-
6,145 Jan.	Jan.		1.95	16, 1495 Mercier Pl	Twellth St. N. line Lot 26, lilk. 2, Res. Whipple's 2nd Ad. prod.	Thirteenth St				Repealed.
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		i	<u> </u>	Jan. 16, 1995 Eighteenth St. Feb. 29, 1995 College Ave Feb. 29, 1995 College Ave March 6, 1995 Alley immy S. of 1995 St.	N line Lot 26, Blk. 2, Res. Whipple's 2nd Ad. prod Twenty-fourth St. Independence Ave.	Holly St. Twenty-sixth St. Ninth St.	an. 2, une 24, une 10, Nov. 9,		300.00	
	S feet	a teres Popos	1	March 6, 1894 Alley bet Holly St. and W. Broybect Pl. March 6, 1895 Holly St. March 6, 1895 Charlotte St. March 6, 1895 Charlotte St. March 6, 1895 Elevanth St. March 6, 1895 Elevanth St.	Twenty-third St. Sixth St. Charlotte St.	Twenty-eighth St. Twenty-fourth St. Ninth St. Campbell St.	June 15, 95 June 15, 95 June 24, 95 July 12, 95	15, 95 115, 95 124, 95	250.00	Complete.
!; ;	April	ě,	38.1	April 26, 1895 Alley bet. Mercier St. and Holly St.	I wenty eightn 31	Twenty-ninth St. Aug.				

STATEMENT OF GRADING CASES FOR FISCAL YEAR ENDING APRIL 20, 1896—

CONTINUED

0	Ordinance.	nce.		-	i	Date of	Dau	Damages.	
Š	V	Date Approved.	Street or Alley.	From	0.1	Trial.	Kansas City	Property Owners.	Kemarks.
			26, 1895 Alley imm y S. of 16th St. Jefferson St. 9, 1895 Twenty-fifth St	Jefferson St	Charlotte St. Nov. 9.95	Aug. 10, '95 Nov. 9, '95		Complete Pending. Complete	Complete. Pending. Complete.
6,411	May June		9, 1895 Al.ey bet. Holly St. and W. Prospect Pl	HZ	Thirtieth St Aug. 8, '95 Twenty-fifth St., Aug. 10, '95	Aug. 8, '95 Aug. 10, '95			Complete. Contractor injoined.
6.422	June		1, 1895 Alley bet. Washington St.	and Broadway Sixteenth St Seventeenth St Nov. 23, '95	Seventeenth St	Nov. 23, '95			Complete.
6,450 June	June		Alley bet. Locust St. and Cherry St.	Eighth St	Ninth St Aug.	Aug. 8, '95		• 0.10	Complete.
6,537 July	July	2, 1895	Alley bet. Grand McGee St	Ave. and Thirteenth St Fourteenth St Jan.	Fourteenth St		3, '96	587.50	Pending.
6,564	July	2 1895		Sixth St	Eighth St	Feb. 8, '96		94.00	New trial Apl. 27, '96.
6,607 Aug.	Aug.	8, 189	8, 1895 Alley bet. Woodland Ave. and Michigan Ave Alley S. of Ninth St	Alley S. of Ninth St	Tenth St	_			
6,609	Aug.	8, 189	8, 1895 Park Ave I wenty-first St		Twenty-seventhSt. May Prospect Ave Jan.	May nay		125.00	Pending. Pending.
	Aug.	16, 189 26, 189	16, 1895 Alley imm'y N. of 18th St. Park Ave. 26, 1895 Tenth St.		Olive St	ep:		94.00	New trial Apl. 27, '96. Pending.
6,713	Sept.	' .		Prolongation N. line Lot 26. Blk. 2, Res. Whipple's 2nd Cliff St	Cliff St	Jan. 2, '96		871.00	Pending.
6,842 Oct.	000	21, 189	21, 1895 Belleview Ave.	Seventeenth St	Twenty-first St April 2, '96 Main St.	April 2, '96			Damages exceed ben- Pending [efits.
6,863	Oct.	18, 189	1895 Alley bet. Pennsylvania Av.	Thirteenth St	N. line of corrected				Pending
6,923	Noct.			Washington St	Broadway Add Feb.	Feb. 8, 96			Complete.
6,893			23, 1895 Twenty-ninth St.	Main St. Fenth St.	Broadway.				Pending. Repealed.
6,895) (t	23, 189	Campbell St.	Fifteenth St Sixteenth St, March 4, '96	Sixteenth St,	March 4, '96	:	165.00	Pending.
6,943 Dec	Dec	6, 185	6, 1895 Alley bet, Wyandotte St. and Baltimore Ave.	ley bet, Wyandotte St. and Baltimore Ave	South'ly City limits		Unani-mous	Petition.	Complete.

STATEMENT OF GRADING CASES FOR FISCAL YEAR ENDING APRIL 20, 1896—

CONTINUED.

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•								-
	Date Approved.	Street of Alle)	From	01	Trial.	Kamsas	Kansas Property City Owners.	Kenarks.
	8 977 Nov. 21, 1993 6,973 Nov. 21, 1593	1977 Nov. 21, 1985 Alley jumn'y S. of 18th St. Wabash Ave. Sub of Gui-Alley N. of Inde-	Wabash Ave Lot 11s Hurok's Sub. of Gui-	Prospect Ave	Pending			Pending.
	21 1495	6 9w Noy 21 1593 Alley her. Park Ave. and	notte Bluff	pendence Ave Pending	:			Pending.
٠.		Olive St. Twentieth St.	Fwentieth St	Twenty-first St Mar. 4, 96	Mar. 4, '96			Complete.
		•	Thirteenth St Fourteenth St Mar. 30, '96'	Fourteenth St.	Mar. 30, '96		Complete	Complete.
10N 116 9		21, 1-93 Alley bet. Twentieth Strand						•
		Matthews Ave Walrond Ave College Ave April 10, '96	Walrond Ave	College Ave	April 10, 96	-	682.00	Pending.
ć		Alley imm'y S. of 13th St.	Olive St	Wabash Ave	Mar. '96		'96 Pending.	Pending.
Dec		Merrill Plans	W line of Blk. 3, Winter Pk	Holly St		:::::::::::::::::::::::::::::::::::::::	Pending.	Pending.
5.5	6-1	Woodland Ave	A point 305 ft. S. of noth Sc.	South'n City limits	Mar. '96	:		Complete.
Dec	6, 1-9	6, 1895 Metrier St. Metrill Pl. Twenty-ninth St	Merrill Pl	Twenty-minth St.		-		Pending.
Dec	. 1787	á						
		held Aves	Fourteenith St. 13 ft N of 13th St. Complete	13 ft N. of 13th St.		:		Complete
٠.	10 14,4		Twenty-third St Twenty-fourth St.	Twenty-fourth St	:	:		Pending.
Frb	10, 1846		Twenty-fourth St	Twenty-fifth St Pending			:	Pending
	1994	-	Independence Boulevard. Independence Ave	Independence Ave		:		Pending.
÷	1836	19, 1896 Alley bet. Main and Wal-				•		:
1	2000	Dut Sts.	Alley S. of Thirtieth St Thirty-first St Pending	Thirty-first St		:		Pending
		Independence Ave	ndiana Ave.	Bales Ave				Pending
tik Feb	9682	Roberts St.	ndiana Ave	Bales Ave				
Tree Mar	•	Lexington Ave.	notiona Ave.	Bales Ave				
×	••	1	Iwentwisecond St.	Twenty-third St.	Pending			Pending
Z		1	15 in. S. of center of K.C.			:	•	
			Hell Ry Twenty-second St. Pending	Twenty second St			:	Pending
14 M 211			Twenty second St South'n City limits	South'n City limits		:	:	Pending.
ī	20. 1/8	26. 15% Thompson Ave	Pending	Walrond Ave			: : : : : : : : : : : : : : : : : : : :	Pending

KECAPITULATION OF PUBLIC WORK COMPLETED DURING FISCAL YEAR

Ending April 20, 1896.

Page Nature of Work.	No. of Contracts.	Cubic Yards.	Square Yards	Cubic Yards Square Yards Lineal Feet. Miles.	Miles	No. of Bills.	Amount.
36-10 Paving Streets.	28		227,485.38	59, 232, 64	11.21	2,185	8439,934.80
39-40 Paving Alleys	æ		3,419.80	2,460.50	94.	173	5,686.03
41 Curbing	16			35,252,80	6.67	152	15,958,95
42-44 First-Class Sidewalks	28		31,661.36	44.870.07	8.40	531	41,654.99
45 Plank Sidewalks.	8			18,271.60	3.46	529	3,093,72
46 Street Grading	<u>:</u>	96, 764, 70		13,205.61	2.50	846	20,919,90
47 Alley Grading.	15	11,960.00		6, 429, 84	1.22	205	2,704.54
18 District Sewers.	•••			2,351.10	£.	1.820	4,631 91
48 Repairs First-Class Sidewalks and Curbing	-					60+	2,922,79
48 Repairs Second-Class Sidewalks	:					3,332	13,835,82
48 Miscellaneous Public Work Paid for by Vouchers.							35. 56
49-50 Sprinkling Streets.	5			99.172.50	18.18	5.721	14.289.86
51 (Jeaning Streets	£			1,277,00	4.17	1.599	3,206,75
51 Sprinkling and Cleaning.	25			8,718.00	.e.	300	1,883.72
		-				18, 129	\$570,830.84

RECAPITULATION OF PUBLIC WORK CONTEMPLATED BY ORDINANCE AT CLOSE OF FISCAL YEAR ENDING APRIL 20, 1896.

Contracts. Cubic Yards. Square Yards Lineal Feet. Miles. 11	966	:	No. of		Appro:	Approximate Estimate.	ıte.	
Paving Streets 17 19 19 17 11 19 19 17 11 19 19	ö	Nature of Work.	Contracts.	Cubic Yards.	Square Yards	Lineal Feet.	Miles.	Ame
Plank Sidewalks 10 2,348 4,174,00 79 FirstClass Sidewalks 9 2,348 4,174,00 79 FirstClass Sidewalks 11 11 11 68 20,380,00 199 20,380,00 199 20,280,00 2,381,00 2,40 2,381,00 2,40 2,381,00 2,40 2,	-24		11		1	37,546.47	11 12	•133,385,20
First-Class Sidewalks. First-Class Sidewalks. Planting Trees and Sodding. Planting Trees and Sodding. Street Grading. Alley Crading. District Sewers. 3 1,500.00 2,531.00 44 1,700.00 2,521.00 1,6 Public Sewers. Sprinking and Cleaning. All contracts annulled.	'n		2	:		4,171.00	٤.	1,317.3
Curbing 7:ees and Sodding 111 201.00 25.350.00 1 99 Flanting Trees and Sodding 3 11.911.00 2.351.00 41 2.351.00 41	9	First-Class Sidewalks,	6			3,501.71	.66	2,173.8
Planting Trees and Sodding 1 1911.00 2,381.00 41 Alley Carding 1 700.00 857.00 16 District Sewers 3 1,700.00 22,231.00 4,40 Public Sewers 3,218.00 61 Sprinking and Cleaning All contracts annulled		Curbing	=			26,350.00	66 1	12, 184.8
Street Grading	90	Planting Trees and Sodding	-				:	
Alley Grading	20		55	11,914.00		2,361.00	7	1,639.6
3 23.231.00 4.40 1.40 Cleaning. All contracts annuiled. 61	6		_	1,700.00		827 00	91.	323.7
Cleaning. All contracts annulled.	20		or.			23,231,00	1.40	67, 35.3
	6	Clean	-			3,218.00	.	16.9 9.7

STATEMENT OF EXPENDITURES OF ENGINEERING DEPARTMENT DURING FISCAL YEAR ENDING APRIL 20, 1896.

	Engineering Department, Salaries	. 843.605.26		
312.48 312.48 347.31 49.20 71.04 nindry. 12.23 services with Typewriter. 8.50	ineering Department, Horse Hire			
312.48 347.31 49.20 71.04 71.04 12.25 services with Typewriter.	am Road Rollers		846,652.28	
12.48 947.81 149.20 71.04 11.04 12.25 services with Typewriter. 12.25	LANEOUS EXPENSE—			_
19.20 71.04 19.20 11.04 11.25 services with Typewriter. 1.30	tracts, Condemnations.			
19.20 71.04 11.04 12.25 services with Typewriter. 12.25	stracts, Grading			
11.04 nundry. 12 25 services with Typewriter. 8, 30	stracts, General Information			_
undry. 12 25	e Prints	,	9K3.08	_
12 25 #.50	F MISCELLANEOU'S EXPENSE			
95.7	Testing Brick, Use of Rattler at Foundry.			
	Grace Robertson and F. P. Wyatt, Services with Typewriter		;	

Respectfully,
H. H. FILLEY,
City Engineer.

SEVENTH ANNUAL REPORT

----OF THE----

DEPARTMENT OF STREETS,

KANSAS CITY, MISSOURI,

—то тне —

BOARD OF PUBLIC WORKS.

— FOR THE —

FISCAL YEAR ENDING APRIL 20, 1896.

THOS. A. DODDS, Superintendent. J. W. HUMPHREY, Chief Clerk.

Kansas City, Mo., April 20, 1896.

To the Honorable Board of Public Works,

Kansas City, Mo.

Gentlemen:—I have the honor to submit herewith my report of the operations of the Street Department for the fiscal year ending April 20, 1896.

Tom A. Dodds, Superintendent of Streets.

DISTRIBUTION OF PAY ROLL.

	 				1					
Months	Superin- tendent.	Clerks.	Inspectors. Foremen	Foremen	Carpenters.	Pavers.	Masons	Teams	Teams. Laborers.	Totals.
			-			1				r
April 18th to 10th, 1895	48 33	00 89 4	130.00	8 151 48	6. 63 73	# 13 90	. 32 00	• 1,021,60	8 1.643.25	8 3,267.71
May. 1895		120.00	305.00	5 (Z)	25.25	61.8X	25 ×6	1,914.21	2, 789, 23	5, 757, 47
1995	166 66	130 00	295.00	233, 44	18 91	51.75	86.98	2,115.22	2,695,16	5, 476, 40
1	166.66	95.051	302.00	293.47	120 00	112.04	245 00	2.713.08	4, 174, 32	8,313.57
6		150 (8)	27.87.2	248.62	109.05	66 33	137.00	1.942 00	\$,035.39	6, 138, 30
9	99 991	35.00	35.75	529.70	146 45	*6.63	110.00	2,312,15	3, 728, 59	1.818.08
		33.53	305.00	317.33	221.05	11.61	132.00	2,416.04	3,746.64	7,635.39
1.95		30.00	367 56	218.81	20.02.	34.01	312.00	1,403.09	2.310.50	5,022.59
66.1		136.00	36	276.87	201.19	8.1.	182.00	1,178.88	2, 723, 48	5.394.18
98.41		20.00	263. 53	248.44	3. 18.	51.88	3.75 75.	1,607.38	3,229 61	6,204.76
36.	_	130 (8)	130 081	107.96	113.75	£ =	33° 32°	157 22	1,515,45	5, 222, 74
94.4		150.00	150.00	133.85	36.25		362 00	175.61	1.602 43	3,296 40
at to 20th, 15th.	9 E.	100 (8)	100,00	19.61	13.62	26.13	90° 74	275.71	570.42	1,332.35
				-				i	-,	1
Fotals	62.021.42	# 7/1 1	63,060,00	62,914 54	91. GIS 98	6615.45	62,215.50	620,792,18	\$13,424.EE	
i 				;		!	1	;	1	1
Total	Pay Roll from	ın April 15th,	Total Pay Roll from April 13th, 1895, to April 20th, 1896	1 20th, 1896			:			** 840. ×4

SUMMARY.

PAY ROLLS AND ACCOUNTS.	Totals.	Totals.
Pay roll from April 16 to 30, 1895	\$3,2 67.71	
Accounts paid from April 16 to 30, 1895	1,111.01	8 4,378.72
Pay roll for month of May, 1895	5,757.47	
Accounts paid month of May, 1895	1,245.25	7,002.72
Pay roll for month of June, 1895	5,876.40	
Accounts paid month of June, 1895	762.15	6,638.55
Pay roll for month of July, 1895	8,364.76	
Accounts paid month of July, 1895	1,070.87	9,435.63
Pay roll for month of August, 1895	6,138.80	
Accounts paid month of August, 1895	1,211.85	7,350.65
Pay roll for month of September, 1895	7,378.08	
Accounts paid month of September, 1895	1,124.29	8,502.37
Pay roll for month of October, 1895	7,635.39	
Accounts paid month of October, 1895	952.50	8,587.89
Pay roll for month of November, 1895	5,022.59	
Accounts paid month of November, 1895	1,782.84	6,805.43
Pay roll for month of December, 1895	5,394.18	
Accounts paid month of December, 1895	754.57	6,148.75
Pay roll for month of January, 1896	6,204.76	
Accounts paid month of January, 1896	1,104.77	7,309.53
Pay roll for month of February, 1896	3,222.74	
Accounts paid month of February, 1896	718.78	3,941.52
Pay roll for month of March, 1896	3,296.80	
Accounts paid month of March, 1896	837.67	4,134.47
Pay roll for month of April, 1-20, 1896	1,332.35	
Accounts paid month of April, 1-20, 1896		1,332.35
Total expense, April 16, 1895, to April 20, 189	6	.\$81,568.58
Estimated value of material on hand, April 1		•
Total expense and material		.\$85,821.87

MISCELLANEOUS EXPENSE.

Months	Salaries of Supt and Clerks	Salaries of Salaries of Supt and Inspectors. Clerks	Mainten- ance of Horses.	New Tools.	Repairing Tools.	Sprinkling	Sprinkling. Telephone	Sundries.	Totals.
April 16th to 30th 1495	1 22 91	08 051	- 8 - -	105 50	101.80	8 250 IN		10.45	425 08
1505	2.6 66	305 00	3	12.63	147.30	134.00		15.93	1, 299 76
1100.	316 66	295 (N)	14.00	97.45	113.00	32,00	5 17.88	1.18	66 874
14.15	316 46	.305,00	91.30	<u> </u>	180.85	3 2		149.23	1,136.14
1st. 1895 .	316.66	27.8.75	36.00	718.22	17.35	35 (H)			1, 43:3.94
vepte mber, 1845	316 66	36.745	99.7	25.40	209 40	39. 28.	18. (N)	96 -	987 52
1.0.1	316.66	305,00	- Sc - 7-	106.10	98 17			30.00	92.96x
14.03	316.66	36; 30	5.35	690, 98	e ş			93.49	1,504,04
1.4.1	316.66	25 ::-	5	7 191	ž	-			163.46
1496	316.66	55 55	3.	116 35	101,05				902.47
·6.1	316 66	150 00	62,50	76. X	100 55			_	11 11:
1.96	316 86	130 00	99	90 ×	3			12.70	638,52
st to 20th, 1896	210 x3	100 00	:	:	:				310, 43
Totals	- \$3.810.43	63,060.00	8×.6×.0	42,152.59	01 226 70	90 015	B 98	8 390.76	

WORK DISTRIBUTED ON STREETS.

Labor, Material, Labor, Labor,	Cleaning.	Cleaning.	ning.		Paved	aved Streets.	Dirt and Macadam Streets.	facadam ets.	Sewer Ma	Sewer Maintenance	Crosswalks.	ralks.	Sidewalks.	alks.	Bric	Bridges.	Miscel	Miscellaneous.	Total
4 21 97 4 28 41 612 60 611 94 6 23 97 8 6 23 6 4 21 97 4 26 83 1 4 19 6 23 60 6 11 94 6 23 97 8 6 23 6 6 2 13 9 02 1 2 6 8 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	No. Loads Cost. Mater Labor. Removed	Cost. Mater- Labor.	Mater- Labor.	ater- Labor.	· ·	ž	Material.	i	Material.	1	Material.	Labor.	Mater- ial.	Labor.	Mater- ial.	Labor.	Mater-	Labor.	DA Pense.
6 2 11 97 6 26 82 4 19 5 102 6 12 60 6 38 60 6 1 16 88 6 2 13 6 2 13 6 2 13 6 2 13 6 2 13 6 2 13 6 2 13 6 2 13 6 2 13 6 2 13 6 2 13 6 2 13 6 2 13 6 2 13 6 2 13 6 3 34 6 2 13 6	Agnes Ave										• 32.31	● 38.41			11.94	\$ 23.97	:	s 6.25	_•
4 21 97 4 26 82 1 4 19 5 102 6 21 13 35 31 35 32 12 24 26 61 1 1 68	April 16 Allen				-	:	-: :	6116.54					612.60	683.60	-		:		
62.13 9.05 27.15 25.16 10.05 11.05 27.25 11.05 27.25 11.05 27.25 11.05 27.25 11.05 27.25 11.05 27.25 11.05 27.25 11.05 27.25 11.05 27.25 11.05 27.25 11.05 27.25 11.05 27.25 11.05 27.25 11.05 11.05 27.25 11.05 11.05 27.25 11.05 11.05 27.25 11.05					:	:	:		•	07	61.5	5.03	:			:	:	39	
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WORK DISTRIBUTED ON STREETS-CONTINUED.

Total	Expense.	910.17 656,201.21	241.26	1,501.47	1 3 1 1 3 1 1 3 1	5 2 2 2 2 3 2	7.0	703 47 176.52	918.08 660,518.93	61,346.10 660,513.93
Miscellaneous.	Labor				2.5				918.08	81,346.10
Misce	Mater- ial.	642.70 6483.02						•	6433 0;	
Bridges.	Labor.	•		16.73				17.90	\$575.67 \$ 677.38 \$433 U2	6 1.258.00
. Bri	Mater-	6567.54		5.64	1.90			2 49	\$ 575.67	
alks.	Labor.	£\$12.20			2f		•		6319.86	9447.86
Sidewalks	Mater- ial.	9127.69			2		•		128.50	
valks.	Labor.	8.8	20.60	5.26 41.13	16.11	4.73	9n .	11.95 6.90	\$3,022.76 \$128.50	e5,598.79
Crosswalks	Labor. Material.	02.402.42 2.86	13.74	4.35, 30.86	10 72 11.69	5.64	17.00	13. E	65,440 96 02,576.03	
intenance		65,284.80 2.47	28.5	5.33	14.38		1.64	21.08	65,440 96	\$6,801.26
Sewer Mai	Labor. Material.	1.339.69	9.	: :			0.0	14.45	e1,360.30	
Dirt and Macadam Sewer Maintenance Streets.	Labor.	12,889.04	60 ·		2.38		97.00	29.15 1.64	96,417.81	es. 119.59
Dirt and Mac Streets.	Labor. Material.	1660.09 \$2,516.64 \$2,331.18 \$5,889.04 \$1.389.69		17.27	ĝ.			99.	679.51 02.666.17 42,332.28 66,417.31 61,360.30	
Paved Streets.	Labor.	\$2,516.64	37.92	17.27	3		30.35		#2.666.47	#3.345.9×
Paved	Mater- ial.	60.099	5 :	1.13	109		2		\$679.51	
ning.	Cost.	23		1,430,40 ×8.27		146.71	:	583.74 131.66	16.24 14 882,971.85	432,971.35
Cleaning	No. Loads Removed	14.72812	57.72	83.2		Ş	,	2947 1551	16,21/16	
Street		1895 T'ls forw'd.	Wabash	April 20 Walnut	Washing'n.	Witte Pl.	Woodl'd Ct	Wyandotte Wyoming	Totals.	Material and Labor, April 16, 1895, to April 20, 1896
G eju		1895 April 16	1896	April 20	::	::	::	:::		Material April April 2

WORK DISTRIBUTED ON ALLEYS.

Ç	Cleaning.	ing.	Paved	Paved Alleys.	Unpaved Alleys.	Alleys.	Sewer Maintenance.	ntenance.	Miscellaneous.	meous.	Total
	No. Loads Removed	Cost.	Material.	Labor.	Material. Labor. Material. Labor. Material. Labor. Material	Labor.	Material.	Labor.	Material	Labor.	Expense.
April 16th to 30th, 1895. May. May. 10th, 1885. 1885. 1885. 1885. 1885. Adjust, 1885. 1886. 1886. 1886. 1886. 1886. 1886. 1886. 1886. 1886.	នឹងនិងមាននង់ដឹង ភូមិ	88 88 88 88 88 88 88 88 88 88 88 88 88	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	2.7.2	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	8 + 6 ± 5 ± 6 ± 5 ± 6 ± 6 ± 6 ± 6 ± 6 ± 6 ±	80 71 07 01 11 08 07 07 07 07 07 07 07 07 07 07 07 07 07		21 + 43 21 + 43 21 + 43 21 + 43 21 + 43 22 + 43 23 + 43 24 + 43 24 + 43 25 + 43 26 + 43 27 + 43 28 + 4	# 24 20 # 24 20 # 25 40	201.4.6 201.4.6 201.4.6 200.4.2 200.4.2 100.1.4 110.0.4 110.0.4 20.5.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20
Totals	10g	\$6×6 . 12	¥ 9 9	11.29	₽ 01 0	1111.02	653.24	653.24 01.001.83	::	10.67	61.975 57
Material & labor Ap.16, 95, to Ap 20, 96		21 9H90		86 Y 29	\$151.42	\$131.82		\$1,055.07	41,055.07	10.67	61,978.57

MISCELLANEOUS WORK.

Total	Expense.	48 198 83 169 74 220 91 220 91 230 91 532 67 533 73 8 192 15 1, 842 15 1, 842 15 1, 10 1, 842 15 1, 84	69,773.61	8669.84 69,773.61		Totals.	1,179.43	845.821.87
neous.	Labor.	6 83 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	6587.52	6 669.84	ļ	To	•88. 1.	9 85.
Miscellaneous.	Material.	9 2 9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	682.32			Totals.	672,266.11 12.876.32	
Painting Bridges.	Labor.	#519.30 e1.703.70 25.20 98.00	41,796.70	62,841.20		ř.		
Painting	Material.	· · · · · · · · · · · · · · · · · · ·	6544.50	6614.92				•
General Hauling.	Labor.	9109-70 21.30 21.30 30.13 30.65 30.2	6614.92	6614.92	1			
General	Material, Labor.		:		1			
Main St. Sewer.	Labor.	578 4 53 578 4 53 554 2 1 554 2 1 1 554 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	#3,366. NU	68, 404, 29			20th, 1896	:
Main St	Material.	2248.488.488.2893.739.2998.339.339.339.339.339.339.339.339.339.	01,037.49	60000000	RY.			
City Hospital.	Labor.	2 1.38 2 1.50 18.00	6347.88	8475.07	SUMMARY	i i	9	l, April 20th, 1896.
City H	Material.	2 1-12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	e 127.19	1-11010-2	S		il 20th, 189	
Cutting Weeds.	Cost.	66.50 67.6.50 221.38 226.10 63.00	91,129.73	\$667.06 \$1,129.73	į'		work April 16th, 1893, to April 20th, 1896 96	
ains.	Labor.	\$2.25 \$2.25	8578.38	9667.06			ril 16th, 18	th, 1896
Fountains	Material.	6.00 to X 11 to 1 X to 0 to 8.00 to 1 1 to 1 X to 0 to 8.00 to 1 1 to 1 X to 0 to 8.00 to 1 to 1 to 1 to 1 to 1 to 1 to 1 to	₩98.68				s work Ap	d, April 20
ing.	Cest.	8 30 22 24 25 30 25 30 25 30 25 30 25 30 25 30 25 30 25 30 25 30 25 30 25 30 25 30 25 30 25 30 30 30 30 30 30 30 30 30 30 30 30 30	471.50	0471.50			scellaneou pril 20th,	rial on han
Cleaning	No. Loads Removed		103			!	eys and mi unton on hand A	, and mate
		1895 1895 1895 1895 1895 1895 1896 1896 1896					streets, all Dense accor of material	Fotal expense to, and material on hand
Date	,	April 16th to 30th, 1815 May, June, 1815 1815 1815 1815 1815 November, 1815 November, 1815 November, 1815 Rebruary, 1846 March, April 1st to 20th, 1896	Totals	Material and Labor April 16th, 1895, to April 20th, 1896			Total expense on streets, alleys and miscellaneous Miscellaneous expense account	Fotal :

CONTRACTED STREETS.

The following Contracted Streets have been inspected by this Department during the past year:

Company.	Cuitens, Metropolitan, Kanasa City, Kanasa C
Spin- Price per kled, Lineal Ft Times per Month.	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Sprin- kled, Times per Day	To the second se
Cost per Clean- ing	883898888 100000000000000000000000000000000
Lineal Clean'd Feet on Times Street Week.	Q0
Lineal Feet on Street	
Contract Expires.	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Con	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Commenced	NAME OF STREET O
, To	Main Nunth. Forest Forest Woodland Fourth Fourth Fourth Sixteenth Fifteenth
From	Woodland Independence. Vestin
Street.	Eighteemth Woodland Ninth Ninth Ninth Ninth Ninth Ninth Draware Draware Con phell Breath Price of the the the the the the the the the the

CONTRACTED STREETS—CONTINUED.

	Сотрапу.	Citizens. Citizens. Citizens. Citizens. Citizens. Metropolitan. Metropol	ens.
			O Citizens.
1	Price per Lineal Ft. per Month.	0.01 19-20 0.01 4-5 0.01 4-5 0.02 2-5 0.01 1-5 0.01	.00 19-50
1	Sprin- Price per kled. Lineal Ft. Fimes per Month	101 A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	-
	Cost + per Clean-		•
1	Clean'd Times per Week.		<u>:</u> ::
1	Lineal Clean'd Feet on Per Street. Week.	994 927 988 988 988 988 988 988 988 988 988 98	5,939
		1896 1896 1896 1896 1896 1896 1896 1896	1895
!	Contract Expires.	ରି ମିନ୍ଦ୍ର ଅନ୍ତର୍ଶ କରେ ଅନ୍ତର ଅନ୍ତର କରେ ଅନ୍ତର ଅନ୍ତର ଅନ୍ତର ଅନ୍ତର ଅନ୍ତର ଅନ୍ତର ଅନ୍ତର ଅନ୍ତର ଅନ୍ତର ଅନ୍ତର ଅନ୍ତର ଅନ୍ତର ଅନ୍ତର ଅନ୍ତର ଅନ୍ତର ଅନ	13, 1895 Nov. 30, 1895
i	e l	21, 1895 NOV. 21, 1895 NOV. 21, 1895 NOV. 21, 1895 NOV. 21, 1895 NOV. 21, 1895 NOV. 22, 1895 NOV. 23, 1895 NOV. 24, 1895 NOV. 24, 1895 NOV. 25, 1895 NOV. 26, 1895 NOV. 27, 1895 NOV. 28, 1895 NOV. 28, 1895 NOV. 28, 1895 NOV. 28, 1895 NOV. 28, 1895 NOV. 28, 1895 NOV. 28, 1895 NOV. 28, 1895 NOV. 28, 1895 NOV. 28, 1895 NOV. 28, 1895 NOV. 28, 1895 NOV. 28, 1895 NOV. 28, 1895 NOV. 28, 1895 NOV. 28, 1895 NOV. 38, 1895 NOV. 38, 1895 NOV. 38, 1895 NOV. 38, 1895 NOV. 38, 1895 NOV. 38, 1895 NOV. 38, 1895 NOV. 38, 1895 NOV. 38, 1895 NOV. 39, 1895 NOV. 39, 1895 NOV.	95'No
,	nence	1	13, 18
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	To.	State Line Grand, Grand, Twenty, first. State Line Hickory Hickory Hickory Hickory Sixteenth Sixteenth Sixteenth Sixteenth Sixteenth Sixteenth Locust Sixteenth Sixteenth Hickory Sixteenth Sixteenth Locust Sixteenth Minth Thirteenth Ninth Ninth Ninth Ninth Ninth Ninth Ninth Grand way	Woodland
	From	Wyoming Madison Madison Madison Madison Madison Buth Eighth Undependence Independence	Grand
1	Streets.	Nineteenth. Seventeenth Tanth Grand St. Louis Charlotte Charlotte Holmes Twelfth Eighth Broadway Genessew Broadway Sixteenth Ffuth Sixth Ninth Wall Walnut	Independence

PERMITS ISSUED FOR EXCAVATIONS.

i	Total Permits Issued.		2012 2013 2013 2011 2014 2015 2015 2015 2015 2015 2015 2015 2015	4,284
Permits	\$noəu	illəseiM	20000-1-2-	2
Poles	e and	inoseiM ' bna Kansas.	22 21 - 10 22 - 12 24 27 - 12 28	8
Setting and Resetting Poles	Telegraph and Telephone.	Postal.		•
nd Res	Tele Te	Western Union.	es → t-∞ → ∞ →	98
*	tric ht.	American		:
Setti	Electric Light.	Kansas City.	<u> </u>	8
J	Missouri Gas Co.	Repairs	_::::::::::::::::::::::::::::::::::::::	-
si si	Miss Gas	Exten.	8 9 12 5 2 12 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	438
Cas.	Gas .	Repairs		3
1	K. C. Gas Co.	Exten.	1 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1.xx6
	Sewer. By Plumbers & Sewer Builders	Sewer Excava- tion.	225262252225254	129
Sewer.	lum r B	Repairs		- **
	By F	Const.	1861888888	347
!	Total	Exca- vations	\$ 5 1 1 5 1 5 1 5 5 5 5 5 5 5 5 5 5 5 5	1.027
	ater ot.	Exten.	64 64 - 64 - 64 50 E	SS.
Water.	By Water Dept.	Service.	(-80x [-804 - 3	5
	By nbers.	Repairs	4 1 2 4 4 6 6 6 6 6 7 4 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6	946
	By Plumbers.	Const.	2222222222	; ;
	Months.		April 16th to 30th 1495 May, June, 195 July, 195 July, 195 Angust, 195 Scylember, 195 October, 195 October, 195 Percenber, 196 Harch, March, April 1st to 20th, 1996	Totals

ANNUAL REPORT

-OF THE-

SUPERINTENDENT OF BUILDINGS.

---FOR THE-

FISCAL YEAR ENDING NOON APRIL 201H, 1896.

A. W. LOVE, Superintendent.

Kansas City, Missouri, April 20th, 1896.

To the Honorable Board of Public Works,

Kansas City, Mo.:

GENTLEMEN: -I have the honor to submit herewith a report of the operations of the Department of Buildings for the fiscal I stated in my last annual report that "the indications seemed to point to renewed activity" for the building In this forecast I was not mistaken, as an season of 1895. examination of the appended report will show, when compared with the one made a year ago. My report for the fiscal year 1894 showed a total number of permits issued of 1,737, at an aggregate estimated cost of \$1,418,695, whilst the present report shows a grand total for the year of 1.773, the approximate cost of which is estimated at \$1,601,800, showing the very gratifying increase of more than thirteen per cent., or in round numbers \$183,105. Adding about the usual amount for underestimated valuation, say twenty to twenty-five per cent, we find that the building improvements in Kansas City the past year does not fall far short of two million dollars. is still far short of the ten and eleven million dollar mark of the "hey-day boom days;" but, notwithstanding, it is still gratifying to note that the tendency is upward and that the increase, though slow, is in the right direction.

The new City Hospital has been commenced and completed during the year, under my supervision. This work required very close attention on the part of the Department, for the reason that enough funds were not available at any one time to let the entire contract to one party and then hold said party responsible for the completion in its entirety. On the contrary, the work had to be done by piecemeal as fast as funds could be obtained, and the carpenter-work was done entirely by days'-work. Notwithstanding the extra cost necessarily incurred by the mode of construction, the building was completed at less cost to the City than had the contract for the entire work been let to a single party. This was largely brought about by the very strictest attention to details and by making every dollar go just as far as possible in the purchase of the various materials entering into the construction. The new building is a credit to the City, is modern in all its appointments, and peculiarly adapted in all its details for the purpose for which it is to be used.

The old brick wing of the City Hospital, which was built several years ago, badly needs a general overhauling, in order to have it come up to the standard of the new building, and if funds are available I think that the repairs on it should be made during the present season. When the old brick wing is put in proper condition, Kansas City can boast of as fine a city hospital as there is in the West.

Last fall the Honorable Common Council set aside \$2,500 to build the foundation of the new City Workhouse. By close figuring and using workhouse labor, I completed the foundation for less than \$1,700. In this connection I desire to say that if there is a public necessity exists in Kansas City it is for the immediate construction of a new workhouse, in accordance with the plans and specifications which were prepared by me more than a year ago, and which have been approved and adopted by a joint committee of the Common Council. facilities at the old Workhouse for caring for prisoners are not only disgraceful to a city like this, but a menace to the life and health of the human souls herded therein. I trust that steps will at once be taken by your Honorable Body, in conjunction with the Common Council, to provide sufficient funds to rush to completion the superstructure of the new Workhouse building.

Soon after the acquisition by the City of the Waterworks, it was found that many of the buildings in connection therewith required immediate repairs. All of that work was done by this Department, as well as making many interior changes in the City Hall in order to properly accommodate the Water Department with necessary room and the proper facilities for the transaction of its business.

Since my last report I have caused to be made two semiannual factory inspections, under the State law, a report of which is herewith appended, and which were submitted to the State Labor Bureau on the dates mentioned therein.

In the table showing list of official notices of unsafe structures served, you will note that 161 notices have been served, which, considering the immense amount of other work devolving on the Department during the past year, I consider a most excellent showing. I condemned and ordered 48 buildings torn down and 49 repaired, and of the other 64 notices many of them were for gutters and down-spouts, fire escapes, etc., etc.

I have endeavored at all times to enforce strictly and without fear or favor all of the provisions of the ordinances regulating the affairs of my department. Several arrests have been made, upon warrants sworn out by me, for parties who persisted in violating the law, and in every case a speedy conviction has followed in the Police Court.

Following are the various tables, which explain themselves:

BUILDING PERMITS ISSUED AS FOLLOWS, BY MONTHS:

			-	
No. of Permits.	Kind of Buildings.	Front Feet.	Estimated Cost.	Fees.
	APRIL 15TH, NOON, TO APRIL 30TH, 1×95;			
3	Brick Business	100	€ 16.500.00	8 H.25
3	Brick Residence	210	20,700.00	10.35
i	Brick + arn	20	900.00	10.33
1	Brick Washroom			
1		14 24	100.00 750.00	. 50
•	Frame Business	257	14,900.00	.50 8,40
10 2	Frame Barn	82	500.00	
:	Frame Office	10	250.00	1.00 .50
!	Frame Omce		1,000.00	.50
i		14	600 00	.50
•	Frame Bowling Alley	10	160.00	
1 *9	Frame Warehouse			.50
	! Misclaneous Permits		17,650.00	44 . 15
114	Total	711	6 74,000.00	9 75.65
		-		-
	MONTH OF MAY, 1895.	4.0		
11	Brick Business	424	0 76,400.00	8 88 35
3	Brick Residence	80	8,450.00	4.50
1	Brick Barn	18	1,000.00	. 50
ļ	Brick Hotel	36	10,000.00	5.00
.1	Brick Medical College	13	5,000 00	2.50
16	Frame Residence Frame Church	326	20,300 00	10 95
!	Frame Church	42	4,000 00	2.00
156	Miscellaneous Permits		69,2×0.00	97 , 60
190	Total	943	0194,430.00	0161.40
	1	-		
	MONTH OF JUNE, 1895.		1	
5	Brick Business	212	9 47,200 00	8 28.60
9	Brick Residence	203	19,600.00	9.45
2	Brick Warehouse	215	9,500 00	4 75
t	Brick Stock Exchange	45	60,000.00	30 00
20	Frame Residence	449	30,550.00	16 95
1	Frame Barn	16	150 00	.50
1	Frame Machinery Manufacturing	20	500 00	50
128	Miscellaneous Permits	··· ···	57,030.00	74 45
163	Total	1,190	#224,5 5 0 00	♦165 (10)
	MONTH OF JULY, 1893		1	
4	Brick Business	157	6 60,700 00	9 31 00
7	Brick Residence	197	26,200.00	13.20
i	Brick Barn.,	34	4,0(A) (A)	2 (0
1	Brick Church	16	2,000 (0)	1.00
1	Brick Pump House	210	4 (80 (0)	4 00
20	Frame Residence	465		17-06
1	Frame Barn	14	200 (40	50
1	Frame Warehouse	50	1,500 00	. 75
125	Miscellaneous Permits	· · · · · · · · · · · · · · · · · · ·	34,590 00	73.45
	Total	1,177	#169,590 00	6142 95
	1 Clair	1.111	_	0112 PJ
	MONTH OF AUGUST, 1895.		1	1
6	Brick Business	194	8 25 SINI (H)	# 26 10
2	Brick Residence	19	5 500 00	2 75
1	Brick Barn	21	1.000.00	50
2	Brick Office	90	15,000 ga	7.50
l l	Brick Engine	55	6 (RK) (N)	3 00
1	Brick Generating	100	10 (88) (0)	5 (8)
1	Brick Pump House	21	300 00	30
23	Frame Residence	519	32,250 00	14 15
3	Frame Barn	17	450.00	1 50
. 1	Frame Greenhouse	17	150.00	50
152	Miscellaneous Permits		37,830 (0)	42 %1
193	Total	1,120	\$160,710 00	0145 40
				

No. of Permits.	Kind of Building.	Front Feet.	Estimated Cost.	Fees
	MONTH OF SEPTEMBER, 1895.			
2	Brick Business	80	9 800.00	8 4.90
10	Brick Residence	244	29,800.00	14.9
2	Brick Barn	44	4,300.60	2.50
ĭ	Brick Hotel	24	2,800.00	1.40
i	Brick Hospital	76	8,100.00	1.5
i	Brick Hospital. Frame Business	20	900.00	50
13	Frame Residence	801	23,550.00	12.00
2	Frame Barn	48	600.00	12.00
127	Miscellaneous Permits		26,240.00	65.60
159	Total	837	\$101,090.00	¢104.3
	MONTH OF OCTOBER, 1895.	-		
2	Brick Business	39	\$ 7,700.00	4.2 5
5	Brick Residence	108	13,600.00	7.00
2	Brick Engine	55	8,200.00	4.10
1	Brick Generating	23	2,000.00	1.00
1	Frame Business	30	1,500.00	.79
14	Frame Residence	342	28,900.00	15.4
1	Frame Barn	20	130.00	. 50
1	Frame Warehouse	24	400.00	.50
1	Frame Machinery Manufacturing	32	1,000.00	.50
138	Miscellaneous Permits		22,630.00	70.7
166	Total	673	\$ 86,060.00	\$104.80
3 9 2	MONTH OF NOVEMBER, 1895. Brick Business Brick Residence	69 299 44	\$ 5,000.00 \$7,000.00 1,100.00	# 2 60 18.50
ĩ	Brick Greenhouse	17	250.00	.56
6	Frame Residence	138	7.600.00	4.05
ĭ	Frame Foundry	50	1,000.00	.50
i	Frame Church	24	800.00	.50
98	Miscellaneous Permits		19,500.00	51.00
121	Total.	641	• 72,250.00	• 78.6
	Month of December, 1895.			
3	Brick Business	300	\$ 94,000.00	# 47.50
6	Brick Residence	91	8,000.00	8.2
1	Brick Public Library	134	113,000.00	56.54
1	Frame Business	18	300.00	. 54
10	Frame Residence	226	17,500.00	9.00
1	Frame Office	12	100.00	.54
52			10,880.00	26.00
74	Total	78 2 	0239,280.00	\$142.75
	Month of January, 1896.			
5	Brick Business.	87	# 900.00	\$ 1.00
1	Brick Residence	25	1,500.00	.78
1	Brick Engine House	48	6,000 00	3.00
2	Frame Business	41	1,300.00	1.00
5	Frame Residence	117	5,100.00	2.9
1 54	Frame Barn	16	200.00 16,920.00	. 50 30,50
				
66	Total	271	8 31,920.00	

No. of Permits.	Kind of Building.	Front Feet.	Estimated Cost.	Fees.
_	MONTH OF FEBRUARY, 1896		ı	
2	Prick Business.	94	0 8,000 00	4.00
1	Brick Residence	9 9 30	4,300 00 600 00	2 25 50
16	Frame Business	.31) 3.3U	22,400.00	13 30
ŭ	Frame Coal House	41	2,000.00	1.00
i	Frame Church	53	1.500 00	73
67	Miscellaneous Permits			83 95
A5	Total	611	53,52 0.00	8 55.95
			i l	
	MONTH OF MARCH, 1896.		1	
2 10	Brick Business	153	8 36,500.00	8 18 25
3	Brick Residence	219	15,900.00	8.35 3.00
î	Brick Barn	10 3 70	4,000.00	2.00
•	Brick Church	60	12,000.00	6.00
i	Frame Business	85	1,000.00	.50
20	Prame Residence	445	19,800.00	15.70
2	Frame Barn	31	700.00	1 00
2	Frame Scale house	60	1,200 00	1.00
102	Miscellaneous Permits		40,470.00	B7 25
144	Total	1,178	0187,570 00	0118 05
			i	
8	APRIL 1ST TO NOON, AP IL 20TH, 1896. Brick Residence	144	6 9,500.00	a 6 50)
,	Brick Livery Barn	49	7,000 00	3.30
;	Brick Stable	25	1,000 00	.50
ż	Frame Business	110	7,500 00	3.75
ē	Frame Residence.	190	9,200 00	5.05
ī	Frame Barn	14	850.00	, 50
i	Frame Blacksmith Shop	16	100 00	50
1	Frame Warehouse	25	600 (0)	. 50
1	Frame Ice Manufacturing Plant	100	2,000.00	1 (0)
1	Frame Church	47	7,500 00	8 75 45 50
91	Miscellaneous Permits		12,830.00	45 54
	Total	724	4 57 600 00	a 71 03

SUMMARY FOR THE YEAR BY MONTHS.

Number of Permits.	Months	Front Feet.	Estimated Cost	Fees.
118 ,	April 15th, noon, to April 30, 1895	711	6 74 (HH) (H)	6 75 65
190	May, 1895	445	141 (430 (8)	161 10
162	June, 1895	1 190	224 530 00	165 (8)
171	July, 1895	1,177	164 440 (8)	1 115 02
193	August, 1895	1.120	160 []0 00	14% 400
159	September, 1895	4.17	14 ((200) 101)	104 35
166	October, 1895	6:3	46 1601 (8)	104 40
121	November, 1893	110	72, 250, 00	78 63
7.4	December, 1895	782	239 230 00	142.73
66	January, 1896	274	(1.92) 00	.19 70
92	February, 1896	647	5 , 500 00	55 95
114	March, 1896	1 135	177, 570, 00	11 . 95
117	April 1st to April 20th, noon, 1896	724	57 600 00	71:05
1.773	Total for year	10 597	• 1,601 NOT (N)	• 1 401 70

SUMMARY OF MISCELLANEOUS PERMITS BY MONTHS.

Number of Permits.	Months.	Estimated Cost.		Fees.
89	April 15th, noon, to April 30th, 1895	17,650,00	í	44.15
156	May, 1895	69.280.00	- 1	97.60
123	June 1895	57.030.00	- 1	78.83
135	July, 1895	34.890.00		78.45
152	August, 1895	37,830.00		82.90
127	September, 1895	26,240.00		65.60
138	October, 1895	22.630.00		70.73
98	November, 1895	19,500.00		51 (X
52	December, 1895	10,330.00		26.00
34	January, 1896	16,920.00		90.50
67	February, 1896	14,720.00		33.93
102	March, 1896	40,470.00		57.23
91	April 1st to noon of April 20th, 1896	12,850.00	1	45.50
1,384	Total Miscellaneous Permits for year	380,340,00		757.50

CLASSIFIED SUMMARY.

Number of Permits.	Kind of Buildings.	Front Feet.	Estimated Cost.	Fees.
V 45	Brick Business	1,895	a 414.900.00	s 209.30
81	Brick Residence	1.969	195,050.00	104.15
13	Brick Barn	361	26,300,00	14.00
2	Brick Hotel	50	12,800,00	6.40
ā	Brick Warehouse	285	18,500.00	6.73
4	Brick Engine	158	20,200.00	10.10
2	Brick Church	106	14,000.00	7.00
2	Brick Generating	123	12,000.00	6.00
2	Brick Pump	234	8.300.00	1 4.50
ž	Brick Office	90	15,000.00	7.50
î	brick Public Library	134	113,000.00	56.50
i	Brick Stock Exchange		60.000.00	30.00
: 1	Brick Medical College	18	5,000.00	2.50
;	Brick Hospital	76	3,100.00	1.55
i	Brick Greenhouse	17	250.00	.50
ii	Brick Washroom	14	100.00	.50
· 1	Direct Washington		100.00	
162	Total Brick Structures	5,570	9 913,500.00	465.28
10	Frame Business	308	13.850.00	8.00
182	Frame Residence	4,105	264,450.00	149.20
14	Frame Barn	246	3.310.00	7.00
2	Frame Office	22	350.00	1.00
7	Frame Warehouse	109	2,650,00	2 2
;	Frame Church	166	13,800,00	7.00
2	Frame Scalehouse	60	1,200.00	1.00
2 !	Frame Machinery Manufacturing	52	1,500.00	1.00
	Frame Club House	20	1,000.00	.50
	Frame Bowling Alley	14	600.00	.50
: 1	Frame Greenhouse	18	150.00	.50
: !	Frame Greenhouse	50	1,000.00	.50
	Frame Foundry	100	2,000.00	1.00
1	Frame Ice Manufacturing Plant	41	2,000.00	1.00
1	Frame Coal House	16	100.00	.54
227	Total Frame Structures	5,327	8 307,960,00	6 180.95

GENERAL SUMMARY FOR THE YEAR.

Number of Permits.	Kind of Buildings.	Front Feet.	Estimated Cost.	Fees.
				
162	Brick Building Permits	5,570	9 913 500 00 0	465.25
227	Frame Building Permits	5.327	307,960 00	180-95
1,394	Miscellaneous Building Permits		350,340.00	757.50
1	=	r I	: ₁	
1,778	Grand Total for the year	10,497	* 1,601,800 00	1,403 70

STATEMENT SHOWING RECEIPTS FOR MONEY DEPOSITED WITH CITY TREASURER.

Date.	Amount.	Date.	Amount.	Date	Amount.
April 22, 1895 April 30, 1895 May 8, 1895 May 15, 1895 May 21, 1895 May 31, 1895 Mine 8, 1895 June 15, 1895 June 22, 1895 June 29, 1895 June 29, 1895 July 16, 1895	48,90 32,50 39,70 50,45 34,75 36,40 36,50 55,35 36,75 24,55 29,75	Dec. 11, 1895 Dec. 18, 1895	49 45 22 55 32 35 42 95 30 90 31 35 38 45 25 80 14 90 28 25 74 50	Brought Forward Feb. 11, 1806 Feb. 18, 1806 Feb. 25, 1806 Mar. 10, 1806 Mar. 10, 1806 Mar. 25, 1806 April 2, 1806 April 8, 1806 April 15, 1806 April 15, 1806 April 15, 1806	11 50 12 25 20 45 30 25 16 00 17 50 49 30
July 25, 1895	71 40 59,40 47 30 41 50	Dec. 23, 1895 Jan 2, 1896 Jan, 15, 1896 Jan 23, 1896 Feb 5, 1896 Carried Forward	31 50 8,50 12,00 15 70 12 00	Total Deposits.	01.403 70

LIST OF OFFICIAL NOTICES SERVED DUBING THE YEAR.

No.
Buildings condemned and ordered torn down
Unsafe buildings ordered repaired 49
Porches ordered repaired
Gutters and down spouts ordered on buildings 14
Gutters and down spouts ordered connected with sewer 4
Unsafe chimneys ordered torn down
Unsafe chimneys ordered repaired
Fire escapes ordered 4
Stairways ordered repaired 4
Retaining wall ordered torn down
Retaining wall ordered repaired 2
Prismatic lights ordered repaired 2
Front steps which projected out into street ordered removed 3
Frame awnings ordered torn down
Skylight ordered repaired
Floors overloaded ordered relieved
Dangerous old open cistern ordered tilled up 1
Open cistern ordered curbed 1
Frame awning ordered repaired 1
Iron fire-proof shutters ordered placed on building 1
Open excavation on lot ordered barricaded 1
Dangerous sidewalk grating ordered put in safe condition
Total number of official notices served

PAY ROLL OF THE DEPARTMENT FOR THE YEAR.

Months.	Amount.
April 15th, noon, to April 30th, 1895	\$ 288.67
Month of May, 1895	580.93
Month of June, 1895	. 566.53
Month of July, 1895	
Month of August, 1895	
Month of September, 1895	. 568.33
Month of October, 1895	. 580.93
Month of November, 1895	
Month of December, 1895	570.13
Month of January, 1896	. 580.9 3
Month of February, 1896	
Mouth of March, 1896	. 562.93
April 1st to noon, April 20th, 1896	
Total pay roll for year	.86,914.95

Synopsis of Report of Factory Inspections

MADE TO THE STATE LABOR COMMISSIONER POR THE SEMI-ANNUAL TERM ENDING AUGUST 31st, 1895.

Specifying:	Number.
Total number of establishments inspected	147
Total number of repairs ordered and complied with	2
Total number of employes in the 147 establishments inspected	7.236
Total number of men employed	
Total number of women employed	2,419
Total number of boys between 14 and 18 years of age employed	
Total number of girls between 14 and 18 years of age employed	
Total number of boys under 12 years old employed	9
Total number of girls under 14 years old employed	73
Average number of employes in the 147 establishments inspected	

Synopsis of Report of Factory Inspections

MADE TO THE STATE LABOR COMMISSIONER FOR THE SEMI-ANNUAL TERM ENDING FRBRUARY 20th, 1896.

Specifying:	Number.
Total number of inspections made	1:39
Total number of repairs ordered and complied with	1
Total number of employes in the 139 establishments	8,547
Total number of men employed	5.363
Total number of women employed	2.591
Total number of boys over 12 and under 18 years of age	
Total number of girls over 14 and under 18 years of age	
Total number of boys under 12 years of age	
Total number of girls under 14 years of age	
Total average number employed	

All of which is respectfully submitted.

A. W. Love, Superintendent of Buildings,

WATER DEPARTMENT.

May 21st, 1896.

To the Honorable Board of Public Works.

GENTLEMEN:

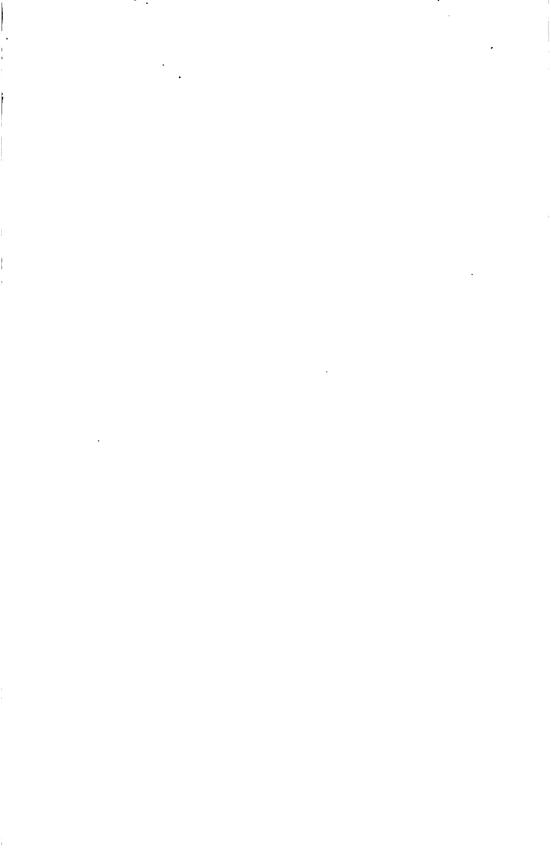
I have the honor to submit my report of the operations of the Water Department of this City, obtained from the books of the former Superintendent, from September 1, 1895, to April 20, 1896, being the end of the fiscal year.

Total cost of operating plant	\$ 89,582.40
From which deduct the following:	_
Amount expended for betterment of plant \$14,030.68	
" Earned by Meter Department 3,834.30	
" Earned by Street Department 1,111.43	3
" Earned by Inspection Department. 892.70)
" Water furnished Metropolitan Com-	
pany\$14,870.49	
Less amount allowed said Co. by Board of	
Public Works for use of pump at Kaw	
Point 2,120.85 12,749.04	32,618.83
Net cost	\$ 56,963.57
Total amount of Coal received at Turkey Creek	191,076 lbs 841,554 lbs 257,250 lbs 476,080 lbs
Total cost of Coal consumed at Turkey Creek. \$8,574 20 Total value of Coal on hand at Turkey Creek. 547.00 Total cost of Coal consumed at Quindaro. 3,559.45 Total value of Coal on hand at Quindaro. 507.75	
Total water pumped at Turkey Creek	36,713 gals
Respectfully submitted,	,

, and the state of

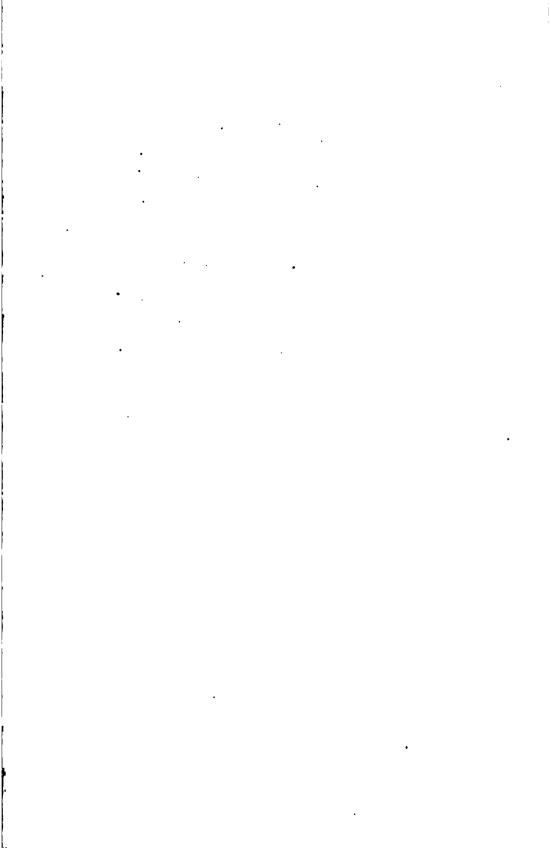
D. W. LONGWELL,

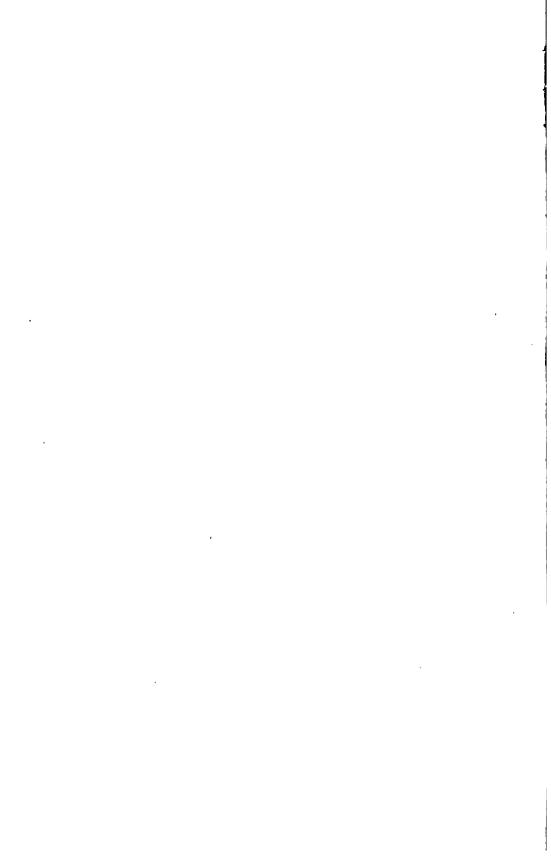
Superintendent.

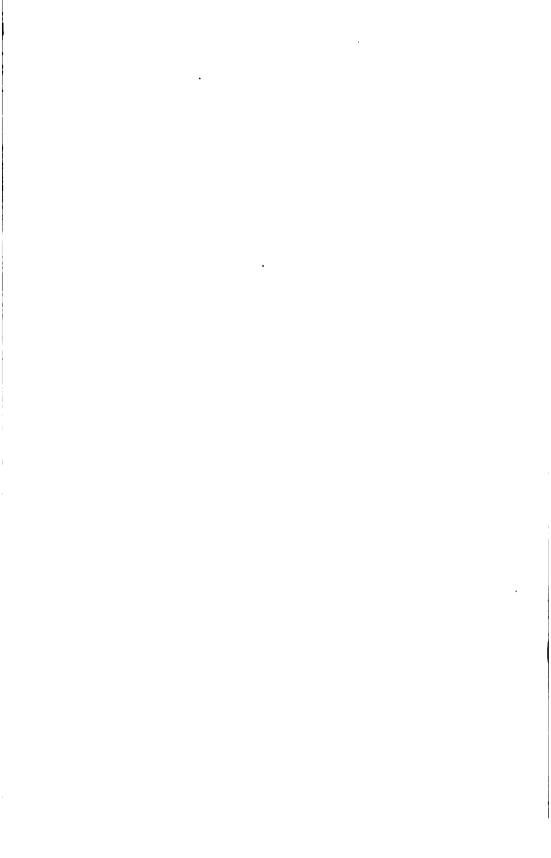




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